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<213> Enterobacter cloacae
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<213> Enterobacter cloacae
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                                                                    180
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gccggaaacg ggttggcgcg tctcgggcgg cagtttgtca ggggcgttca cggcaatgcc
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gegegeegee getegaceaa etggegeage aeggeaaget gegetgegge ttgtgegeeg
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<212> DNA
<213> Enterobacter cloacae
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cgaatcgatg cctatatcca ctggtacaac gagcgccgca tcaaagtgtc gcttggcggg
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```

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<213> Enterobacter cloacae
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cttcacqttq ttqaggattt tacccagaaa ccggtatgca gctttgctgt tacgacggga
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ccggcctttg aatgggttca tgtgcagctc catcagcaaa aggggatgat aagtttatca
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<213> Enterobacter cloacae
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getteegttt ettttggtag eegggggaee tatgeeaate tgggettgee eggtaeeggg
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                                                                      240
ctgagttacc gtacccggct tgaccgggcc gcgcgttccg gaggtggaaa ccggacggca
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atttttcagc ctattgaacc actaaccctt taa
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<213> Enterobacter cloacae
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gaaaagctcc agcagcactt tggtaaagtt cagaatgcct tcatccgggc agtagatgcc
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aaataa
                                                                      186
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<211> 279
<212> DNA
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aaccagcatc cgtgccaagg tggagcaccc gtttcgcatc atcaagcggc agttcggctt
                                                                      240
                                                                      279
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<211> 1191
<212> DNA
<213> Enterobacter cloacae
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180
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                                                                      1191
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<213> Enterobacter cloacae
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<213> Enterobacter cloacae
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<213> Enterobacter cloacae

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<212> DNA

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<213> Enterobacter cloacae
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<211> 1155
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<400> 2874

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accggcttcg cccaatggga atacaacatt caggcaaaca acaccgaagg ttctgacaat
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cagteetgga egegtetgge ettegeggge gtgaaggttg gegattaegg eteettegat
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tacggccgca actatggcgt cctgtacgac gttgaaggct ggaccgatat gctgccagaa
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gacctgggca atggccagga cgataaagac ctggtgaaat atgctgacgt cggtgctacc
                                                                      1080
tattatttca acaaaaatat gtccacctat gttgattata aaatcaacct gctggatgaa.
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gatgattcat tctacaaaaa caatggcatc ggtacggatg acattgtagc gttaggtctg
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gtttaccagt tctaa
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<213> Enterobacter cloacae
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cagcagatet ttegetttaa agegeggtat gattateega ataaaaagtt geateaaege
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<210> 2876
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<212> DNA
<213> Enterobacter cloacae
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cacagettae geaactetge ggegetggae ggegtgetgg egaaatteee gegegtaaaa
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accategeae egggetggeg etggetggag etgeatgeeg atggeteget gaecaeegaa
                                                                      780
                                                                      837
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<213> Enterobacter cloacae
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1140
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aacgccgtga tggacatgct gctggccaag aaacgttctg aagatcgacg taactggcta
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<210> 2878

<211> 2277

<212> DNA

<213> Enterobacter cloacae

<400> 2878

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<212> DNA
<213> Enterobacter cloacae
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<213> Enterobacter cloacae
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gcaccgctgg cgacggtgga cgtgaaggtg aatctgcctg cgtcctccag ccagccgcag
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                                                                      235
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<213> Enterobacter cloacae
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attattgcac gagaaacgct ttatagcggt tttttttcaa tggaacttta ccgtttcagg
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<213> Enterobacter cloacae
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gcgtataact ttattctcgg cagcgtggcg tcagtggtga tgctgattgt cctgctgagc
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<213> Enterobacter cloacae
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cggctccatt cccaggaact gattcgcctt gtggaacggc agatacgcgc cgtctacgcc
                                                                      180
                                                                      240
cacgccttcg aagaactgat ctttctcggt gaaggcttcc agcggcgcgt tccaggtcag
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<210> 2884
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<212> DNA
<213> Enterobacter cloacae
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gtcggcccac aggaagttct gcacttcggc cttcacgtcg taatcgctgt ccgcgcgcac
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gaccttaaca tcatgtccgg cgtcgcgcag gaaaccatcc gcgacctcgg tcagggtgtc
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cattatttgt cctcgatgat gagagtatgc cgggtattct acgcgcgagg acggagcgga
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<210> 2885
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<212> DNA
<213> Enterobacter cloacae
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gcttatatgt cactcagtcg gcgtcagttt attcaggctt cgggtatcgc cctttgtgcg
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ggtgcgatac cgcggacage cagegcegee gggcagcaac agecgetgee tatteegeeg
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gtcgcgatga ccgtcagtgg tttgcaggtg ccggggccgc tgattggcgg cgcggcacgc
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atgatgtege egaatgeega etgggegeee gteeteeega ttegteagag egeggegaea
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<212> DNA

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<213> Enterobacter cloacae

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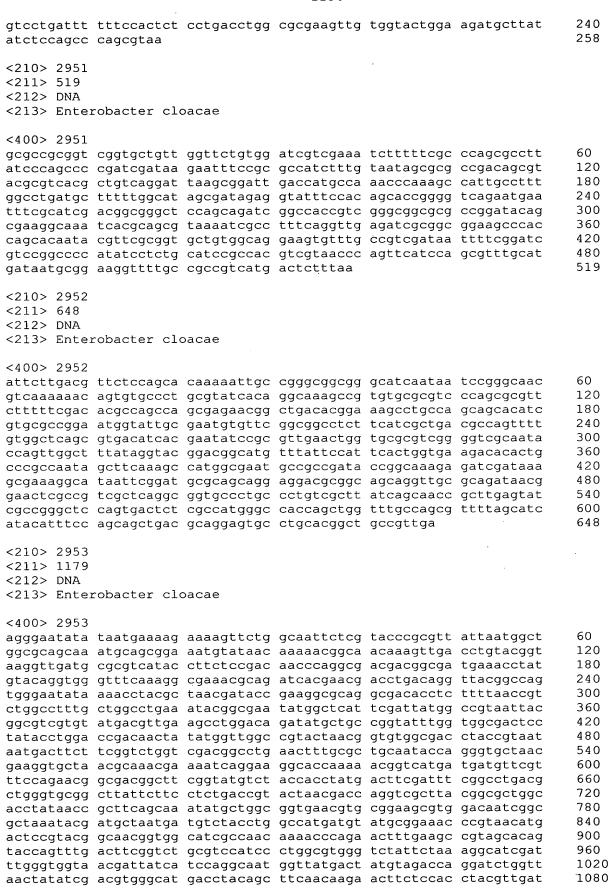
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<213> Enterobacter cloacae

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acceptaction to acceptage to the control of the con
                                                                                                                       300
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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<211> 864

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				aggttgcgcc		360 420
				cggttcctga		480
				agccgaagcc		540
				ccacgcagcc cgacaaaacc		600
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780

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<400> 3588

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<212> DNA

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<211> 681

<212> DNA

<213> Enterobacter cloacae

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<210> 3602
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<212> DNA
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<211> 2025 <212> DNA

<213> Enterobacter cloacae

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<212> DNA

<213> Enterobacter cloacae

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<210> 3646

<211> 936

<212> DNA

<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<210> 3783

<211> 1023

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<212> DNA

<213> Enterobacter cloacae

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			1495			
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			gaccagettg			360
			atcctctttg			420
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			atttgcggta			720
			caggaggcga			780
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<213> Enterobacter cloacae

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cgtcaggtgg cagagaaact tgcccagggc atgtcggtga aagagattgc cgtagagctg
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1380

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gccaaaagcc tgctgcgcga agccgacggc tacgcgcgcc aggcgcacaa gatgcagacc
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720
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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<212> DNA

<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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60

120

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<212> DNA

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gaaaagtacc tgaaacagct tgatctgtgg gagaaacgta acgagcgcgc gcggatgttg
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cagggcattc aggtattaag catgcgtaac aaagcaaacc gactggaaga gctgtttgtc
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tttcgccacg ccattgtggc gcagggctcc ccgggcgtga gcagcctgtg gcaccagcag
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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<400> 4171

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<213> Enterobacter cloacae

<212> DNA

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                                                                      360
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480
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gccaggcgta tcgtctcgct gtcgcgcagc tcaccaagca gaatcacatc cggatcttca
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tggatcaggc aacgttcact ctggtacata aactccaccg gatcttcaag ggtcagaata
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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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2229

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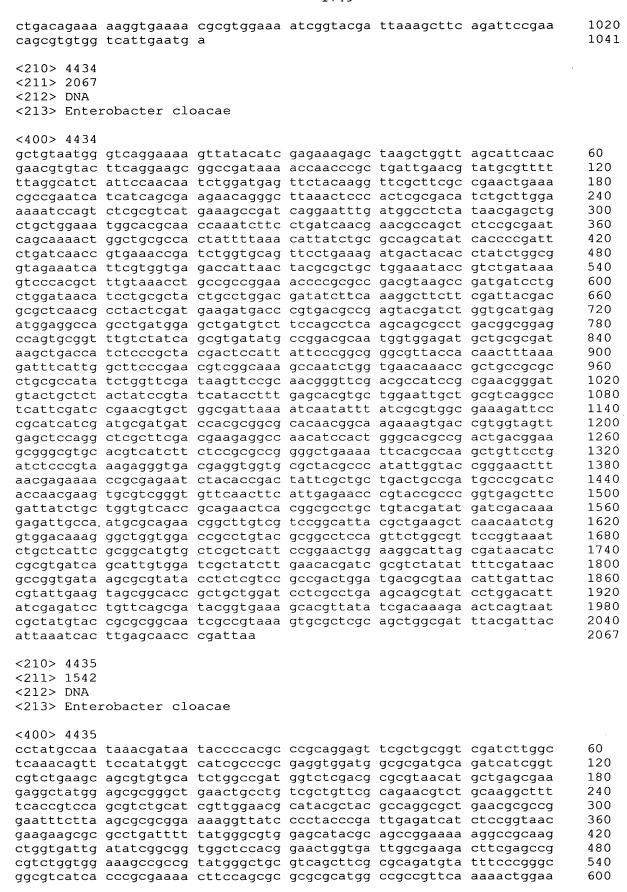
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1750

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<213> Enterobacter cloacae

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<213> Enterobacter cloacae

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<213> Enterobacter cloacae <400> 4555

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<210> 4558
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<211> 978

<212> DNA

<213> Enterobacter cloacae

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<212> DNA

<213> Enterobacter cloacae

<212> DNA

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<400> 4609

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tattcaaatc ttcgtgaact cacggttcac catatcgacc acgatcacac caataacccg
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gaagatggca gtaactggga gctgttgtgc ctgttttgtc acgatcacga gcactcaaag
                                                                      240
tacaccgaag cggatcagta tggcaccacc gttgtcgcgg gtgaggatgc gcaaaaagac
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                                                                      360
cgggcgcgat tgtgcctgag cgcggcggat atcgaacgct gccgtcagga taaggtgctg
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gcgatggtgg cgcatattga gggcgcgggc ggttttgacg gcgagggagg cgatctacag
                                                                      480
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gagggtatcg ccctcattaa gcacgctaat gccctgaata tgctgattga cgtttcgcat
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cctgatgact tacacgatgt gagtggttta ccacggctaa tcagcgcgtt gcgtgacagc
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<213> Enterobacter cloacae
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<212> DNA

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                                                                      180
gcgatgcata acggcgaggc cagccgcgag cagatccagg gctgggtggc gaaccggttt
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                                                                      300
tactaccaga cgacgatccc actgaaagac gcggcaatta tggcgaactg cccggatccg
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                                                                      480
                                                                      540
geoegeegeg ceaactggca ggaggetgca tgcagttege teacegaact gttegeeceg
caaatccatc agtcgcgtct cgacagctgg ccacagcact acccgtggat caaagaggaa
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                                                                      180
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                                                                      300
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                                                                      1140
ctcgaggcgc gacgcgaagc agcctgtagt gatatgaaga tcggtcagct tcagtttcgc
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<211> 465
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                                                                      360
gattgtggca aggtcattga atttagcgat gattccattg aatcgcgcca gcgtgaaatc
                                                                      420
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cctggccgtg cgctggtttc cggcggggta atgcggctcc acgaaagccc catcatctgt
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240
gegetacact atgtgeceaa cegtggegeg cageagetgg cegggaaaeg caccegeaeg
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                                                                    240
                                                                    300
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                                                                    360
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                                                                    300
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                                                                      540
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                                                                      900
caaatcaacg cettgtccgt catcgagttc cccggacacc cgcgcgcctt tggtgagcct
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tcccgtatca gctgtgtcgt acacattggt gacggcgaat ttaccgatat cgaacgcaag
gccgaactgg gcggaaacat tcatgccaaa ggcatgatga tcatgcaggc gttcctgatg
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totgaactto agotogagoa goagatocoo ttototgoot ogttgacott tgagoagtoo
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                                                                      1140
tacagtgaag tegaeggega eagegeetea atggeggage tgtgtgeegt gateagegeg
                                                                      1200
cttgcagacg tgccgattaa ccagaatatt gcgattaccg ggtccgtgga tcagtttggc
cgtgcccaac cggtgggcgg actgaatgag aaaatcgaag gttcttcgca atctgcgtct
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<211> 1028
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                                                                      60
                                                                      120
aagttttgcc cggtttgcgc tcgtgaagat acttttcatt atggtgttac ttattggcat
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ctggcgcatc agcttcatgg ggttacaacc tgccatcggc atccggtagc gcttgaaagc
atccatgtcc cttcttcacc gcacatacgt attggactga tgcctcctgt ttcgtataca
                                                                      240
                                                                      300
gaacaactta gcaatgagat agacttcgat tttgctaagt tttgttatga gtccctaaat
ataatcagaa gaaaagatat tacacacccc aattacatgg atgtacttaa aaagttgaat
                                                                      360
ttattatcat tggatggaaa tttaaagaaa aatgtattct acgcacatgt ttatgctaag
                                                                      420
                                                                      480
tgccagttat ttggggaggg ttcatcggga cttataccaa catccctaac tgattatcat
                                                                      540
tactgggagc ctatactcaa agacaaatgt tgtcagcatc ccacaaagca tcttttgctt
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tgttattgtt tgttaaatac ttgctggcca acgtatgcag gaagtcgtac taataaaaag
                                                                      660
aaagaaatct ttaaaagtca taagaaatac agttttcata tagttgaaaa taatactagt
                                                                      720
gttagcaacc ttgggaagga atttagtcgc agcagatgtt acattaaaac acttatttat
                                                                      780
aaaaaatacc tqaqqqcqtt taaqcqaaac acaaaaatta atatattcac tgaattgctt
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atcaagtcta tggctgtaag ggggtttagt ctggcatcca tagctgagaa aaactcatta
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tcggaaggag ctgtatcctc tgtaatttca tcttgttacg gtttatgctc atggcgtaaa
                                                                      960
aaatgtaaaa aagattettt aagaeggegt eataageaga aaatattaag atttataeat
                                                                      1020
aatcaatccg tttctataac acgaaagtta gtcaatcttc acgacggggc tgaaaggaaa
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cgcgctac
<210> 4624
<211> 246
<212> DNA
<213> Enterobacter cloacae
<400> 4624
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                                                                      60
                                                                      120
gtatctaaag gtatcccagc taacaagatc tccccacgtg gtatgggcga atctaaccca
                                                                      180
gttaccggtt ctacctgtga caacgtgaaa ccacgcgctg cactgatcga ctgcctggca
                                                                      240
ccagatcgtc gcgtagagat cgaagttaaa ggtatcaaag acgttgtaac tcagcctgcg
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gcataa
```

```
<211> 483
<212> DNA
<213> Enterobacter cloacae
<400> 4625
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                                                                      120
tacatcgaag ccagcgcgc gcaagaagct gtggatatgt tgctgaccct cgaaaacgaa
                                                                      180
ccggtactgg tcaacggctg gattgagaaa cacattaatc cggccctgtt aaaccggatg
                                                                      240
                                                                      300
aagcaaacta teegtgeteg tegtaaaegg cattteaatg eegageatea geacaeeegt
aagaaatcca tcgacctgga gtttatggtc tggcagcgtc tggccgggct tgcgcaacgg
                                                                      360
                                                                      420
cqcqgqaaaa ccctgtcgga aacggtggtg cagctgattg aagatgccga gcacaaagag
                                                                      480
aagtatgcca gccagatgtc gacgctgaag aacgatctac aggcactgtt aggtaaaaaa
                                                                      483
<210> 4626
<211> 198
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(109)
<220>
<221>unsure
<222>(131)
<400> 4626
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gtcgccaata tgctgtacac gtttccagtc gggccgggtt tccagcccng gggcaatatc
                                                                      120
ccggcgagtc ntgggaggag ggagtttagg gtattggaga tttttatccc gtccgcggca
                                                                      180
                                                                      198
agcgcctgct gggtatga
<210> 4627
<211> 822
<212> DNA
<213> Enterobacter cloacae
<400> 4627
                                                                      60
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aaggcattgc tgaccatcgc tgagcgcatt ctcaacgagg ccggcaacgt tcgccggctg
geggatetet ttaccaacga egetteeggt gtgatgacta tegecaccae ceataegeag
                                                                      180
                                                                      240
gcgcgctaca gtcttccgac ggttatcaaa gcatttcgtg agatcttccc ggacgtacgt
ctcgaactga tccagggcac gccgcaggaa atcgaagtgc tgatgcataa cggcggggcc
                                                                      300
gatateggta tegecagtga aeggetgage aacgaeeege tgetggtgge gtteeegtgg
                                                                      360
                                                                      420
ttccgctggc accacagect getgttaccc gecgateacc egetgaatea ggtttcgccg
ttgacgctgg aagagatcgt caaatggccg ctgattacct accggcaggg cattaccggg
                                                                      480
                                                                      540
cgctcgcgca ttgatgaagc gttcaagcgt aaagggctca cgccggacgt ggtgctgagc
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gcgcaggatt ccgacgtgat caagacctac gtcgagttag ggctggggat tggcctggtg
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gccgagcagt ctggcggaga atatgaggcc ggaaatctgg tgcgtctgga tacgcgtcac
                                                                      720
ctgttcgatg cgaataccgt ctggctgggg ctaaagcgcg ggcagcttca gcgtaaatac
                                                                      780
gtgtggcgtt ttattgagct atgcaacgcg gggctgtcgg tggatgagat caaacgccag
                                                                      822
gtgatggagc cggaagaggt ggcgattgat tatcagattt ag
<210> 4628
<211> 219
<212> DNA
<213> Enterobacter cloacae
<400> 4628
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60
gatacggtcg agtcgatggt ccgggcatta cgtaccggga actatagcgt cgtgattggg
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tggttgcctg aggatctgtc gcaagaggaa catttgcgtc tgactgaagc ggctgaagaa
ggtaacgcga tgggtttcat catgcggcca gttcgtggag attcctatcg cagaggacaa
                                                                    180
catcccgggc taaaaattca ctcaaatgtg taccattga
                                                                    219
<210> 4629
<211> 426
<212> DNA
<213> Enterobacter cloacae
<400> 4629
ataacacaaa tottoatgga gtttatoatg ttoaaatoga toatgacogt atcactgotg
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                                                                    120
gccgccgcta ttgcctctac cagcgcagtg gccgcagaca attcagcggg tggtatcatt
                                                                    180
aactttaccq gcgctattac cgatacaacc tgtaccatta acggcggtaa aagcgcagac
                                                                    240
tttaccqttq cqctttcccc tatttcggta aaagatgcag gcaccacggt tggcctgatc
                                                                    300
actaagaata aaaaatctat tgcgctgact ttctcaggtt gttcaccagc agccggaacg
                                                                    360
accggcaccc cgctgaaagt gtatttctcc agcgcggata atatttccac tgacggtaaa
tacctgctga ataacagcgt gaacgaaagc gatgccagcg tggcacgtaa tgtcggtttt
                                                                    420
                                                                    426
gcgtta
<210> 4630
<211> 1026
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(1017)
<400> 4630
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ttcgaccgca cctcgacgca ccggcgcggg atgctggcga aggtgcatat cgccaaggtc
                                                                    240
cagttgggga tgagcgacga cgactatgtc gcggtcctgc tccgcgcgac cgggcggacc
                                                                    300
agegeggeeg agtgeacega eegegagete gaegaegege tgegegaatt caageggett
ggcttcgagc cacaggcgcg ctcgccgaaa gcggcgaaac cagcggatca tcctctcgct
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ctgaaggcgc gggcgctgtg gatctcgctg catcacctgt gcgcgatcgc cgacccgtcc
                                                                    420
                                                                    480
gaaaaggcgc tggaggcctt cgcgcggcgc cagctcggct gcgatcggct ccaatgggcg
                                                                    540
aaccagtcgc agggccaccg cctgatcgag gcgctcaagg cgatcgccgc gcgtcacggc
                                                                    600
tggaacctcg ccatggatgg ggtgaagcct gaggcggtgc tgatcgtcac caagcggcgg
                                                                    660
ctggtcgacg cgatcgcccg ccaagctgcg cgcgcgcgac atcgtgccgg acgggtggag
                                                                    720
cgagcggaag atcgcacggc agctgaccgg gatcgaggtc gactcgatcc tgttcgcaac
                                                                    780
cgacggggaa ctggaccgca tcgcccaggc gccccggcgc caagctgcgg gcggcgatgg
                                                                    840
aggeogggt atgategege eegecaceeg eggatatgte gtgetgtate gegegeegea
                                                                    900
gctctgcccg ggatgtggcc gctcgcactg gctggtcgga cggttctcgg cggaatgcgc
                                                                    960
atggtgccac ctcgcgctgc cccttgcgcc ggccgtgccg gagcggatcg cggcatgacc
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acccagaccc agatcgtctc gcggaacgaa cagattgagg agttggccgc gaggccngtt
                                                                    1026
ttttag
<210> 4631
<211> 282
<212> DNA
<213> Enterobacter cloacae
<400> 4631
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ctgtatatag gcctgcgtac tattccggtc atttttgaca tcattaaaga cgtggaggac
                                                                    240
atctgcccga acgcctgggt gattaacttt accaacccgg ccgggatggt caccgaggca
gtctatcgcc ataccggttt caaacgcttt atcggcgtct gc
                                                                    282
```

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<210> 4632
<211> 345
<212> DNA
<213> Enterobacter cloacae
<400> 4632
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cttgtatttc cggtctgcga attttggctg gtggatgttg atgatggtct ggagttgctg
                                                                      180
attttttttt ttgttctgtg ctttcgcttg gttgattttg cgggcgtgcc cttttccttg
                                                                      240
cttttttege tggttegteg cetggetetg tttgatgetg tettegtgte etegetgetg
                                                                      300
cacatcaacc tactatttt ttagcacata tactaatcaa acactttcca ctataccaa
gttttctggg cctggtttcc ttcggggctg gtggcctgta tatag
                                                                      345
<210> 4633
<211> 687
<212> DNA
<213> Enterobacter cloacae
<400> 4633
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cacttaacca aatcaaaagg gcgcgtaacg gaagccgata ttcaggtggc cagcgtcttt
                                                                      120
atggatcgca tgaatctgca cggcgaatcc cgcatcgcag cgcagaatgc gttccggatt
                                                                      180
ggtaaatcag ataactaccc gctgcgtgaa aaaatgcggc agttccgtag catctgtttc
                                                                      240
                                                                      300
gggcgttttg atttaattcg gatgtttctg gaaattcaaa tccaggccgc cttcgcggat
ggttctctgc atccgaatga acgggacgtt ttatatgtga ttgccgaaga gctgggcatt
                                                                      360
                                                                      420
tecegeatge agttegacea gtttetgegt atgatgeagg geggegegea gtttggeggt
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ggttatcagc aacagcactc ctccggcggc tggcagcagg cgcagcgtgg ccctacgctt
                                                                      540
gaagatgcct gcaacgtcct cggcgtgaag ccgtctgacg atgtcacgac catcaaacgc
                                                                      600
qcctatcgta agctgatgag cgagcaccat ccggataagc tggtggcgaa aggcctgccg
                                                                      660
ccaqaqatga tggagatggc gaagcaaaaa gctcaggaaa ttcagaaagc ctacgagctg
                                                                      687
attaaagagc agaaaggttt taaataa
<210> 4634
<211> 579
<212> DNA
<213> Enterobacter cloacae
<400> 4634
                                                                      60
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                                                                      120
ctgaagcgtc aggaaggcaa aaaagcctat gtggttggtg aaggtgcgct gatccacgag
                                                                      180
ctgtataaag cgggcttcac catcaccgac gtgaacccgg actttgtcat cgtgggcgaa
                                                                      240
acgcgctcct ttaactggga gatgatgcat aaggcagcct actttgtcgc caacggtgcg
                                                                      300
cqttttatcg ccaccaaccc ggacacgcac ggtcgtggtt tttatcccgc ctgcggtgcg
                                                                      360
ctqtqtqccq qtatcqaaaa aatctcgggt cgtaagccgt ttgttgtcgg taaaccgagc
                                                                      420
ccgtggatta tccgcgccgc actgaatacg atgcaggcac actcagaaga aaccgtcatt
                                                                      480
gtgggcgaca acctgcgtac cgatattctt gctggcttcc aggcggggct tgaaaccatc
                                                                      540
ctggtgcttt ctggcgtttc acagcttgat gacattgata cgatgccgtt ccggccaagc
                                                                      579
tggatttacc cctctgtcga cgaaatcgac gttatttga
<210> 4635
<211> 345
<212> DNA
<213> Enterobacter cloacae
<400> 4635
                                                                      60
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                                                                      120
acagggttaa cggagaaggt tatgtgttct atttttggcg tactggatat taaaactgac
                                                                      180
gcgggcgaac tgcgtaaaaa agcactcgaa ttgtcccgcc tgatgcgcca tcgcggtccg
gactggtcag gcgtttacgc cagcgataaa gcgattctgg ctcacgaacg tctctccatt
                                                                      240
gttgatgttc acgctggcgc acagccgctg tataacgaga aaaaaacgcc cgcgctggct
                                                                      300
                                                                      345
gttaaacggg aaatttacca acatcaagcc ctgccccccg aataa
```

```
<210> 4636
<211> 684
<212> DNA
<213> Enterobacter cloacae
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ttaaatctaa caattggaat agctattata aattatttgg ttcccactga acaagggaaa
                                                                      120
atagggtttt taataaattt atgcatgttg ttaagttttt taactacttt aggtataggt
                                                                      180
ccagttttct caaattttgt aagcagatca aataattaca atctaatttc aggaaagttc
                                                                      240
aaggatagta tttcgcttcg cttttgtggc tatattgtat ttttagttat atcttttttg
                                                                      300
cttatttata taataaagcc caatctttta attcttgcta ttcctttttt gctagggaaa
                                                                      360
tttttcttta gcctcgatat ttattataat tttgttgaag gtcaggggcg atttaaagat
                                                                      420
tatgcaattt caaaattctt ttctttgaca ttaataaatg gcttcagatt gtattgtgtc
                                                                      480
gttcaaaaac ttgatgtctt ttgggtagct gtttcatact ttttaactga cttccttacc
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tttttcatgt attttatctt ttatgataag ttaaagcttt taggattccg ttttaattat
                                                                      600
aaaaaatcgt tagttttatt aaagataaat tataagctcg ctctgtcttc actacgaagg
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                                                                      684
tgccggagcc gcgatatcac atcc
<210> 4637
<211> 594
<212> DNA
<213> Enterobacter cloacae
<400> 4637
cccattgcca gactggtgca ggactatcct attaaatcct gttcggtgat cgcccatatc
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cgccaggcca atcgcggcga agtggcgctg gaaaataccc atccgtttac ccgtgaactg
                                                                      120
                                                                      180
tggggccgta actggaccta tgcgcacaac gggcagctct cgggctataa atcactggaa
accggcaatt ttcgtcctgt cggtgaaacg gacagcgaaa aagcattttg ctggctgctg
                                                                      240
                                                                      300
cacaagetga cegagegeta eeceegtaeg eeeggeaaca tgaeegeegt ttttaaatae
                                                                      360
atagogteae tggogtetga gttacgogag aagggogtet ttaatatget getgtetgae
                                                                      420
gggcgctacg tgatggcgtt ctgctcgaca aatctgttct ggatcacccg acgtgcgccg
                                                                      480
tttggcgtcg ccacgctgct cgatcaggat gtggaaattg attttcagaa ggagaccaca
ccgaacgatg tggtcactgt cattgcaacg cagccgctga cgggcaacga aacctggcaa
                                                                      540
aagatcatgc caggcgagtg ggcgctattt tgtctcgggg accgcgtaat ttga
                                                                      594
<210> 4638
<211> 987
<212> DNA
<213> Enterobacter cloacae
<400> 4638
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gcacctgccg ctttcgccgc aaccacctgg cccctcacga ttgaaaattg cggcgtaaag
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cagaccttta cgcaggctcc tcagcgcgtc gtgaccgtgg gtcagcatga aacagaatta
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ctgctcgcac tggggctgga gaaaaccatc gccgcgacgt cagtctggtt cggcacgctg
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ggtccgcagg gagaagtggg aacccgtgaa cagtttgcgt cgctggggat taatacgtgg
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atctccctg ccgactgcac ggataaaacg gtaacggaaa cctcaaacgc agacggagca
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cgtagcgcgc cgttttcact ggcggaaatt acgcgggaag tgacagatct ggcgacgatt
                                                                      540
tttgatgttt ccgcgcgagg tgagcagctc aatcgtgcgc tggcggagcg tattaaaaag
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                                                                      660
gcccaggcgc gcgcctccgc gaaacaactt agcgtcgtat tctggttctc cagcagccgt
ctgaatggcg atccctgggt ggcggggaat tacggcgcgc ctggctggat tagccgcacg
                                                                      720
                                                                      780
ctggggttga agaacattat tgactctcac gacgaatggc ccgctgtaac gtgggaacat
attgcccgat cgcagccgga cgtgattgtt atcgccggga tgtcccgcag gctctatcct
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gccgatgagg ttgaggtaaa aaaagcgttc ttgcgcagtg acccggtgac aaagaacatg
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                                                                      960
cctgcggtca ggaacaacca catcatcgtg gtgccagcga tgtcgttaaa cccttcattg
                                                                      987
cgtaacgtcg atgcggttga gcttatc
```

<212> DNA

```
<210> 4639
<211> 222
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
cctcataaag tgcgtcgtag tccggattgg agtctgcaac tcgactccat gaagtcggaa
                                                                      120
tegetagtaa tegtggatea gaatgeeacg gtgaataegt teeegggeet tgtacacace
                                                                      180
                                                                      222
gcccgtcaca ccatgggagt gggttgcaaa agaagtaggt ag
<210> 4640
<211> 1035
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(105)
<400> 4640
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ccgggttaca gcattaccaa cctcgcgccg ttcctgcaag ccagntatga cattgacgcc
atcaccctga gcggcggcgt gcgttatcag tacaccgaaa acaaggtgga cgattttgtc
                                                                      180
                                                                      240
ggttacgccc agcagcaggc aatcgccacg ggcaaagcca cctccgctga cgcggtgccg
                                                                      300
ggcgggaaaa ccgactacaa caacttcctg tttaacgccg ggatccttgg acgtctgacc
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gaacagcaac agetgtggtt taacttetee cagggetteg agateeegga eetggegaag
                                                                      420
tactacggct ccggcaccta tcagctggtc gatggtcact atcgtctgca aaacagcgtc
aatgtgaacg actcaacgct ggacgggatt aaggtcaatg cttacgagct cggctggcgc
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                                                                      540
ttcaccggcg ataacctgcg tacccaggtg gcggcatact actcgctctc ggataaaacc
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atcaccatca acaagagcga catgaccatc aacctggagg acgacaaacg tcgtatctat
                                                                      660
ggggttgaag gccaggtgga ctatttcttc accgacagcg actggagcac cggggcgaac
                                                                     . 720
tttaacgcca tcaagtccga aacgcgtgaa aacgggaaat gggagaagct gacggtcgac
                                                                      780
agegecagee egtetaaage cagegeatgg gteaactggg egeegggega etggaegeta
cgcgtgcaga gcacacaaac ctttgacgtg tctgacgccg acggtaagaa gattgatggc
                                                                      840
                                                                      900
tataacaccg ttgatttcct gggtagctac gccctgccgg tgggcaaagt cagcttcagc
                                                                      960
gtggagaacc tgctggacaa agactacacc accgcctggg gccagcgcgc accggggctg
                                                                      1020
tatageceaa cetaeggege acegggtetg tetaettatg tetteteeae gaggeggeea
                                                                      1035
agaatacgca gaaag
<210> 4641
<211> 614
<212> DNA
<213> Enterobacter cloacae
<400> 4641
cggaacaata aaatacaacg tatgaaaaaa cgtatcccca cccttctgga cacaatgatt
                                                                      60
                                                                      120
ggcaccgccc tgtatagcca acaggggctc gcagccgatc tcgcctcgca gtgtatgctt
                                                                      180
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gtgattttct cgatggccgt gctgtataac gccatcaaca gctttatctt cttcggccag
                                                                    360
cgtccacccg cacgettetg gacggcggca gcgctggggc ttatcgggat cattaccctg
                                                                    420
ttctggaacg atctgctcgc cagcggctgg agcgcgtcgt tgcttacggg catcgggctt
                                                                    480
tecgeeeteg geacataegg ettetegetg gggaatatga teageatgeg teateagega
                                                                    540
                                                                    600
aacgggatgg aaaccatgac caccaacgcc tgggcgatgc tgtatggcac cgtcgtgatg
ggacttatcg ccctcttcag aggcgataac tttatgccgg aatggacggt gagctatatg
                                                                    660
                                                                    720
ggggcgatgc tetatettgc gctgtttggc tcggtgattg ccttcggcgc ctactttacg
                                                                    780
ctggtaggcc gcattggtcc cggtaaagcc gcctacagca ccctgctgtt ccccgctggt
                                                                    840
ggcgctgtcg atttcaacgg tgttacaagg ttaccttttg gcatcctcac cggattttcc
                                                                    870
ggctgttttt tgataattgg ggggcatttt
<210> 4663
<211> 270
<212> DNA
<213> Enterobacter cloacae
<400> 4663
                                                                    60
aagaaaaata caatgttcca gcaagaagtt accattaccg ctccgaacgg tctgcacacc
                                                                    120
cgccctgctg ctcagtttgt taaagaagcg aaaggcttca cttctgaaat cactgtgact
                                                                    180
tccaacggca aaagcgctag cgcaaaaagc ctgttcaagc tgcaaactct gggcctgact
                                                                    240
cagggtaccg ttgttaccat ctccgctgaa ggtgaagacg agcagaaagc agttgagcat
                                                                    270
ctggttaagc tgatggctga actcgagtaa
<210> 4664
<211> 845
<212> DNA
```

```
<400> 4664
ggtagggtta tgatttcagg cattttagca tccccgggta tcgctttcgg caaagcattg
                                                                      60
ctgctgaaag aagacgaaat cgtcattgac cggaaaaaaa tttctgccga caaggttgat
                                                                      120
                                                                      180
caggaagttg aacgttttct gagcggtcgt gccaaggcat ctgcgcaact ggaagcgatt
aaaactaaag ctggcgaaac tttcggtgaa gaaaaagaag ccatcttcga agggcacatt
                                                                      240
atgctgctcg aacatgagga gctggagcag gaaatcatag ccctgattaa agataaaggc
                                                                      300
atgacggccg acgcggctgc gcatgaagtt atcgaaggtc aggcatctgc cctggaagag
                                                                      360
                                                                      420
ctggacgatg aatacctgaa agagcgtgcg gctgacgtac gtgacatcgg taagcgcctg
ctgcgcaaca tcctgggtct ggccatcatc gatctgagcg cgattcagga cgaagtgatc
                                                                      480
                                                                      540
ctggttgccg ctgacctgac cccgtctgaa accgcacagc tgaacctgaa caaggtgctg
                                                                      600
ggtttcatta ctgatgcagg tggacgtact tcccacacct ctatcatggc gcgttctctg
gagetgeeag ceattgtggg ttaeggtage gtgaegtete aggttaaaaa caaccactat .
                                                                      660
ctgattctgg atgccgtaaa aaatgtggtt tacgtcaacc ccactaacga tgtgatcgac
                                                                      720
                                                                      780
cactgcgccc ccgttcagga gcaggttggt accgaaaaaa acgaactcgc taaaactgaa
                                                                      840
aaatttgcca accatcccgc ttggaatggc ttcaggttga aattgtgcgc taacatccgg
                                                                      845
tacgg
<210> 4665
<211> 357
<212> DNA
<213> Enterobacter cloacae
<400> 4665
aatcataacc ctaccttact tgtgactgat attgaaaaga acccggtaaa cttactcgag
ttcagccatc agcttaacca gatgctcaac tgctttctgc tcgtcttcac cttcagcgga
                                                                      120
                                                                      180
gatggtaaca acggtaccct gagtcaggcc cagagtttgc agcttgaaca ggctttttgc
                                                                      240
gctagcgctt ttgccgttgg aagtcacagt gatttcagaa gtgaagcctt tcgcttcttt
aacaaactga gcagcagggc gggtgtgcag accgttcgga gcggtaatgg taacttcttg
                                                                      300
                                                                      357
ctggaacatt gtattttct tctaccagcc ggcctggagg atctatgctc tcgagac
<210> 4666
<211> 192
<212> DNA
<213> Enterobacter cloacae
<400> 4666
                                                                      60
cttagcgcgg atgccgccag ccccgtggtg aagattccag agattaacca aatcactatt
                                                                      120
gctaaattct tcagcggtca agggttatca ctgatgggtg ctgcactgat ttatgaaatg
                                                                      180
gtactgaaag cacacgatgc aatgacagat ttaatctgga atgaatacga ggtgaaaact
                                                                      192
atgaatggct aa
<210> 4667
<211> 231
<212> DNA
<213> Enterobacter cloacae
<400> 4667
                                                                      60
gatgaacata tgcgcgcatc tgcaactcgt agtgaagacc tgggacaccc cgagaacaaa
                                                                      120
agtgaattag cgtggaatga aaacaaaaaa tggaagaaaa atcaagaatc tcttttatta
aatggtgttg aaatacctat tgtcagctta gattatgaaa ttgaaataaa ccaagaaatt
                                                                      180
ggcaattata atgcatttaa agatacttgc tatctggaaa attatagata g
                                                                      231
<210> 4668
<211> 426
<212> DNA
<213> Enterobacter cloacae
<400> 4668
gggggaaccc taacggggct tctctttgaa caaatcgagg agcggaaaat gtcatatctt
                                                                      60
                                                                      120
gaatatatca atgaagtaaa agtgtccggg atagttatca gtgctgtgga gaaaaaaatg
```

<212> DNA

```
actgaccaga gtataggttt gttaataaag ctcaaaaata ggatgaagac agaagttgat
                                                                      180
ggtgaaatca ctgagagaga attttcagtt caaatcaagg tgtcgcctga aatgtattca
                                                                      240
acctgtttca ctggtataaa tcagggtgat gagttgatgg tctccggtta tattgttgtc
                                                                      300
qatactatta tgattgaagg gagagaacat cctcttgact acatgagagt ggtagcaaca
                                                                      360
                                                                      420
aqtaaqttqq ctcacatacc taaacctcta aaaggttttg gacaaagtag ctttaatcag
                                                                      426
atctqa
<210> 4669
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 4669
atcaactatt tgcgttattt catcttcatc tatatcgaat atagaaaaaa aactaagttg
                                                                      60
attactactt attgcagtag ccctaaattt ttgtttcatg gggactccaa aaggagaaat
                                                                      120
                                                                      180
cccatgaagg gatttctccc ctttagggtg ggtttaatgt cagatctgat taaagctact
ttgtccaaaa ccttttag
                                                                      198
<210> 4670
<211> 369
<212> DNA
<213> Enterobacter cloacae
<400> 4670
tcctctgcgg cgcttgaaga acaaatcatg ttggacgatt gcaatgacga tatgggctgg
                                                                      120
gacatcttct ttgatcagga ttatttaatg tcagaaaaaa aactggctgt taaatggact
                                                                      180
gacagggaaa ttatggatgt ttacataaaa gcttttaaat ccacattaga gttgtttgac
                                                                      240
gagcttgttt catgtgatct gttaactaaa cgaaacgctt ttggcaagtt agaaataaat
ccaatattcg aaaatcattt tgaatggatc atgtctgaag cttttgaaat agtgggaaat
                                                                      300
                                                                      360
catcttggtt ataatgtgcc tcaaatcagg aaactgatgg caactatttg ccaaatgaat
                                                                      369
ctcaaataa
<210> 4671
<211> 258
<212> DNA
<213> Enterobacter cloacae
<400> 4671
                                                                      60
cgcttcttat caatggtggc agaaacgggc tggataaacg ccgcgcgctg tttaacctgg
                                                                      120
cgaaatcagt tctggtgtga ggtgaatgtg ggtatcgaaa cgataatcgg gctggccgca
ctggtcattt ccgccattgc aggcgctttt ggcctgggcc atatccgcgg caccagcaaa
                                                                      180
                                                                      240
gcacaggeta aageegaeea acagegeaet gaagataaeg cagetgeaae ggtegeagea
                                                                      258
gcggaacgcc gggtatag
<210> 4672
<211> 411
<212> DNA
<213> Enterobacter cloacae
<400> 4672
qttaattcaa aaqqqaaaqc ttttqacqta aaactqqaaq catatqcttt aagtqaaaat
                                                                      60
gacggaaaaa atgggatccg aggcacgctt atcagccgaa atggtcacgc aattgcagga
                                                                      120
gctgcatttg ccggtggact ttcttcactt gccggtagct taagtcccag taaggtatct
                                                                      180
                                                                      240
tcattttaca tcgaccctta ttcacaggct cagtatcagt cccctaattt tggtgcactt
ggggcattag ccggggttgg tgcagctcaa ggtggtctta atcgactcgt cgattactac
                                                                      300
                                                                      360
accgcaattg cagaacaaca gtggccaatc gtagaaatta gccctggccg agctattaca
tttgtcgttc agaccggaac tacaattcca acgaatctga ccagtcgctg a
                                                                      411
<210> 4673
<211> 483
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```
<400> 4673
                                                                       60
atggatagtt tagaaaaaaa agaatcgcct gaatcagctg gacctgaaat cactaaaaaa
atggtgcgag aaaggacaac aaaaaaaatt accttcgaaa ttgatattga aaaaatattg
                                                                       120
aagtatttat ttttcttcgc ctttqccqta ttqqtcatta tttatqqtta taaaqqcttt
                                                                       180
atgaatgttt acgattactt caataaacaa tcccagcctt cgtacaagat tgcagtgctt
                                                                       240
gacatgcctq aattacgtaa ggaatttttc aagcatcacg gaggccgtac tgctgacaat
                                                                       300
gataqatctc aattcqaaqa atatttcaga acattaatga agatctaccq tgaccqtgqc
                                                                       360
                                                                       420
tatttaatta ttgatqcaac qcttqccqtt actgtaccqg atagtgttga aatcgtcact
tatatggaac ttgaagatag ctctgaagcg gtacaatcaa gttcttataa tgcaaagaag
                                                                       480
                                                                       483
tag
<210> 4674
<211> 924
<212> DNA
<213> Enterobacter cloacae
<400> 4674
acctttacaa actttttccg gaaggatttt cttttctggc agatccttca tggacattac
                                                                       60
                                                                       120
totgcgctgt gcaacttgat ccaatcagtt acaaagccag aagaagagat agtaattttc
                                                                       180
tctactqqaa atttqtttqa ctatqqqccq qaacccataq aattqatqaa qgcqataaac
agtggctttt tcgatggacg ttttgtgagg catttctcag ctgccggagc cggagaagaa
                                                                       240
                                                                       300
atgttaaaaa aattgttacc attaaacaaa gaccggagaa cattttaccc cagcacatac
ctcaatqaqa qatqqtqtt aatqqqcqqa aaqtqqcata aaqctqtqaa tcqttactat
                                                                       360
ttagaggaag aggtaaaaaa acttcttaat acccagcttg gtacgatgat gcagatttta
                                                                       420
ctaaaaqqcq atataaaaat tggggtttgc ccttctgatt acgcccctat ccgcacatca
                                                                       480
ttcactgata cttataatgc gcttcaagca ttcaactatg ccaatgtgaa tatttttcag
                                                                       540
agccagtttc tattcggtat ggaccatgcc gtaataccaa tgatgataaa tgacgtcaac
                                                                       600
cttatggtcc taggtaggaa tcctgtaaac agcattcgaa aagcccatgg tcgtactcaa
                                                                       660
aacaatcttc cagtactgat cggtaattgt ttgcatataa atactggatc actctatatg
                                                                       720
tcaaaattag aagaccaggt aatagttgct ccgggtatac cgcaaactga ctcaccagca
                                                                       780
cttacattag tagaaataat catgaagaac aatccagttt tattgtgtca tcagctaata
                                                                       840
caaacaacaa acaagtttta ttcacttaaa acctatcctt tagaactcga ttcgattgaa
                                                                       900
aacaacattq aqqtaacaag atga
                                                                       924
<210> 4675
<211> 348
<212> DNA
.<213> Enterobacter cloacae
<400> 4675
acaagagtac ggaacccact catggatatt cgtaagatta aaaaactgat cgagctggtt
                                                                       60
gaagaatcag gcatctccga actggaaatt tctgaaggcg aagagtctgt acgcatcagc
                                                                       120
cgtgcagccc cagccgctag cttcccggta atgcagcaag cttatgctgc gccagtgcag
                                                                       180
cagcctgcgc tctccgcagc cgttgcgcca gcggcagcag aagcggcacc tgcggctgca
                                                                       240
                                                                       300
acagaaaatc atggtcacat cgtaagttcc ccatggttgg tactttctac cgcaccccga
agccggacgc gaaaggcttc aactaaatgt gtcaaaaagt caacgtaa
                                                                       348
<210> 4676
<211> 183
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(128)
<220>
<221>unsure
<222>(155)
```

```
<220>
<221>unsure
<222>(171)
<220>
<221>unsure
<222>(174)
<220>
<221>unsure
<222>(176)
<400> 4676
ggaggaggaa agggggaggg agaggtaggg gggacgagag aagagaggag gaagagggga
                                                                    60
ttggggaagg gaagagcgat ggagggcggt gaggggggaa gagaagggaa ggtggagggg
                                                                    120
180
                                                                    183
<210> 4677
<211> 240
<212> DNA
<213> Enterobacter cloacae
<400> 4677
aaaagaagga agcgaaaaaa gaaaaaggat ctcagcgcga aaggccaggc ggaagcatca
                                                                    60
                                                                    120
aagagaacag ctaaggcaac cacgaacccg ctcacgaaag aaaacagcgg gaataaagaa
                                                                    180
accttcacca aagcgccgga acgcgaagag gccctggggc agaaaaccgt cgagatccag
cttcagcagg gtctggaaga aaaggagaaa gccagcgcgt tctggccgac caaagaatag
                                                                    240
<210> 4678
<211> 189
<212> DNA
<213> Enterobacter cloacae
acggcacttg cgtcttcccc agatttacgt ataatgcgcg ggcttgtcgt aattgacggc
                                                                    60
gggttcaatc tgaaccagag tagctcactt tgttactcaa caatgctccc aattggggag
                                                                   120
ctacgtaaga acggttacac tctcccatca atcgtaatgg gtttgaggag taatcatttt
                                                                   180
cgtttataa
                                                                    189
<210> 4679
<211> 213
<212> DNA
<213> Enterobacter cloacae
<400> 4679
atacttaccc gggtcaccga atccgtcagg actggcagtg ggttagtctt gtctacgttg
                                                                   60
ataaaagcct tetteattge cetgttteee ettgteetga aaaagttaee gaeeegteeg
                                                                   120
gatggagggg tcggtcagaa aatcatgcct gtcccttatt catcttctca gcatgcttac
                                                                   180
gcaggtactc tttcaggtca gcatgagcat tga
                                                                   213
<210> 4680
<211> 339
<212> DNA
<213> Enterobacter cloacae
<400> 4680
ccgacccctc catccggacg ggtcggtaac tttttcagga caaggggaaa cagggcaatg
                                                                    60
aagaaggett ttatcaacgt agacaagact aacccactge cagteetgae ggatteggtg
                                                                   120
acccgggtaa gtattcagtg cacggcaaaa gatgaaaacg gggcagggat cgaagtgaac
                                                                   180
```

atcctcgacc tgattcagga cctgttcagg ctctggcgat gcagaactgc aacagaattc <210> 4681	gctccgccgg	gttatgacag			240 300 339
<210> 4661 <211> 345 <212> DNA <213> Enterobacter clo	pacae				
<400> 4681 aatggtgaaa agccaaaacg cggctccaaa ggaacagggt agcgttctga acaaaaagac cgtattgctg aagaagccaa cttgttctga ccaatgatga tacctgcgta agcatgctga <210> 4682	tcataaacag cgtgaccgtc gcttaaagaa aatgaacgat	aacccggcag attgccgaca ggtgaatctg atcatcaatg	gtaaagcacc ccgcgatccc tcagcactga ctcatgctga	atccatgtcc gatttttgaa tacttacacg	60 120 180 240 300 345
<210> 4662 <211> 339 <212> DNA <213> Enterobacter clo	pacae				
<400> 4682 acttacggag aggatatggt cgcgagatta ttgcatctgg tctgatcagg aacgaggtaa gctttctcct actttatcag atcttaagca cgaaatggga catgtcttca caacgaccag	acttgcagtt agaggttcct ttctcaaatt caacatcgtc	ttttgcgcat gtttctatga gccgctttta tggaatgatg	ggtgcgtttt aaaaaataac ttatctcctt	gtgtcttttc ttcaaagtca gttgggttca	60 120 180 240 300 339
<210> 4683 <211> 192 <212> DNA <213> Enterobacter clo	oacae				
<400> 4683 tccccaaacg tatgtctttc tgctccctca ttgtgttttt agttcaaaat atttcagcat gaacaatcct aa	tgccgggtcg	ccccggcttt	ttttcgtttc	gtctcctgaa	60 120 180 192
<210> 4684 <211> 492 <212> DNA <213> Enterobacter clo	pacae				
<220> <221>unsure <222>(30)					
<400> 4684 atgcactcat taatgaccgt tttaaatcac aggaacgtaa gagaattctg tatgggtaga tatagtctgg ttcacttcaa aaacttgaag agacatatcc tggagtaatg cccgattatc accatgaagg aagttgctgc aatgatgagg aaagggaact cacgaaaaat ga	aagtaaagaa acattacgaa ccagtaccag tgaatttgat aactcagacg tcgctggaac	gtgatatcaa tctcaaatca gaacctaact tttcatgttt attaaaaaat cgttcggaat	ttctgtttga gcataaccca ggtcttttat ccagaaagtc tattaaaaga catggatgag	gtatgttcgt ggatgaccga ttctaaagaa tcttgaaaac aaaaactgg taaagttgtt	60 120 180 240 300 360 420 480 492

```
<210> 4685
<211> 294
<212> DNA
<213> Enterobacter cloacae
<400> 4685
ggcagcataa tgtctaaaga acttgttcga cctataatgg aaaaacctga acgggccaga
                                                                      60
aaagaaagta gcctgactaa cattgcggct aaaaagaaaa atacgacagg cgaaacacca
                                                                      120
aaaactatac gcatgacacc tgcggaaaag atgctggcgc aggaactggt tgagcagatc
                                                                      180
caggcactta cgcacaagaa cattacggtt tccacattac ttcgtgcagg gctgtacctt
                                                                      240
gctcagtcag caggaccaga aaaagttctg aaggcgatta aagagaacat ttag
                                                                      294
<210> 4686
<211> 291
<212> DNA
<213> Enterobacter cloacae
<400> 4686
aaaatggata aacagcttta ccacattcgc tggaagcttc atcacactct ggctgagcta
                                                                      60
aattactcac ttgaatgttt tggcgattac ctggccaaac aaaacgatta tccttacgat
                                                                      120
attgacgggt ttgaggcgat ctatttatat ttacaacgta aatattcatg gcctctggat
                                                                      180
aaatccagag gaatgagcct ttcagatatc agacttgctc tttcagtaga gatgaaaggt
                                                                      240
tggacattgc ctcgcgatgc gatttttgaa gaatttcctg gtgtgtattg a
                                                                      291
<210> 4687
<211> 189
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(81)
<400> 4687
agcacaaaca actgggaaaa agaatacctc cccccccca agggactcga atttatggaa
                                                                      60
attccaaccg acccettcca ntgcgttctg cttggctggg gcggcggaat taagggaggg
                                                                      120
cetttecceg gaggggaate eegcacaaat tacceegeee agggggggee cacettecce
                                                                      180
tgggtggtt
                                                                      189
<210> 4688
<211> 195
<212> DNA
<213> Enterobacter cloacae
<400> 4688
attcagaagg ttacttttat catgccatct ttgttaggca tatctaacaa aaaaagcttg
                                                                      60
cctaatctgt tagacatatc taatctacat ctcatcgaca atcacatgca cagtgattac
                                                                      120
tcagtagatg taccgttcgg cggcccggcc ttaagggaac aaaaaaagcg ccctatcgga
                                                                      180
cgcttcgctc tttaa
                                                                      195
<210> 4689
<211> 213
<212> DNA
<213> Enterobacter cloacae
<400> 4689
aaatctggat atccccctt tccacaggca ggagatgact atatgcagga taatgaattg
                                                                      60
gccaaagtta gagatttctg gttaacagta aaactcatgg ctgagaatag tttgaaagaa
                                                                      120
                                                                      180
atctcattac tcaatacaca ccaggaaatt cttcaaaaat cgcatcgcga ggcaatgtcc
aacctttcat ctctactgaa agagcaagtc tga
                                                                      213
```

```
<210> 4690
<211> 432
<212> DNA
<213> Enterobacter cloacae
<400> 4690
aagggggccg gacccggtat gagtcggata atcgcgcgta ctgggatgat cagatccagc
                                                                       60
tcaatattga cgcaccgctt tatcagggcg gcgcggtctc ggcgcgcgtc cgtcaggccg
                                                                      120
                                                                      180
agggcgcaag ggcaatggca tcgtcgcagg tcgatcaggc ccgttttgat gtcctgcaaa
aaatcctccg tcgcacaggc cgactggacc ggggcgcgtg gactaatgga agccgggaaa
                                                                      240
cgtcagctgg aaaatgcgtt gcgcgcccgc gatgtctaca aaaatgaata taccctgagc
                                                                      300
aagcgcagca ttaacgatct gctcagcgtg gagcaggatg tctggtctgc cacctccgcg
                                                                      360
aaaataatgg ctgaatacga tggctggagt gcggcgatta attacgcctc tgcggtggat
                                                                      420
                                                                       432
aatctcatgc cg
<210> 4691
<211> 195
<212> DNA
<213> Enterobacter cloacae
<400> 4691
                                                                       60
ctcaccgagg ggtcgcgatc gagagcgaaa agaatacttt ctttcatcgt cattgccgca
acgggagata teccegeetg geegttattt geattageeg eagteaceae caacgaaatt
                                                                      120
                                                                      180
aaggtcaggg aggcagataa tctgagtaac ctgttattgc atttcatctt cataatatcc
                                                                      195
cccgactcca ggtga
<210> 4692
<211> 297
<212> DNA
<213> Enterobacter cloacae
<400> 4692
                                                                       60
atttcgttcg ctgtcagaca tctgaggaac gatatagggt tcacctgctc tggcccagtt
                                                                      120
ttcacgaaca gatggatgat tcatttcagc tttatctatc tggctcgttc tagatatttc
                                                                      180
atgtttgtaa ttaggttcca aaacgttact tttgtgatag tcaaaagcat tctcctcatt
                                                                      240
aatattgccc tctcctacaa atttatcaat aagagttgga tcgttcatta ttactgtctg
aacgggaaaa gcgttactgc catcttcgat actaatgggt gcgtccggaa cgattaa
                                                                      297
<210> 4693
<211> 393
<212> DNA
<213> Enterobacter cloacae
<400> 4693
gcttttaata acaggtcaga atatatacca aaaaggagtg tattaatcgt tccggacgca
                                                                       60
cccattagta tcgaagatgg cagtaacgct tttcccgttc agacagtaat aatgaacgat
                                                                      120
                                                                      180
ccaactctta ttgataaatt tgtaggagag ggcaatatta atgaggagaa tgcttttgac
                                                                      240
tatcacaaaa gtaacgtttt ggaacctaat tacaaacatg aaatatctag aacgagccag
atagataaag ctgaaatgaa tcatccatct gttcgtgaaa actgggccag agcaggtgaa
                                                                      300
                                                                       360
ccctatatcg ttcctcagat gtctgacagc gaacgaaatc taaaaattaa acgattccag
                                                                       393
aaacctacaa gtggagctaa tcatggacat taa
<210> 4694
<211> 696
<212> DNA
<213> Enterobacter cloacae
<400> 4694
                                                                       60
aaattaaacg attccagaaa cctacaagtg gagctaatca tggacattaa aaaggcctgg
                                                                      120
gaaaataaga ccgtcagact ttctgttatt ggcgctctgc tggtagtgat tgtttatatt
                                                                      180
attagccagt ctatttttc cacaccagtt aagaaagaaa agaaaacaca gaaaaaagac
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atgcagacca atttgttgtt agatgattcg caaatgaaca aattgagtaa tgaagaaagc
cagaaagtat ataaagaaat ggttaagcaa aaccgacttg accaaaatgc ggcgaaagag
                                                                    300
gaccgcgaaa aagcagaaaa agcccaacag gaaactaaag cccaagttgc aagtttaact
                                                                    360
teteaactte ageagetgte teageaaatt aatgatatge agacaaateg aaaeggeaat
                                                                    420
cgtaacttgg atgctggtag ttcgcgtaaa acgattaatg agcaggcacc ggcagctcct
                                                                    480
tatcagctta atgctaatgc gccgattaat ggcgtaaacc ctaattacgc ttctatcaca
                                                                    540
cctacgcgta atagcccaat gagaacaatc acacaaagtt ccattaagac taatggtacc
                                                                    600
gatggtgtca ttcaggttat gcccgtgtct gaaaacagaa tcaaggaagg cagagaggtc
                                                                    660
attgcaggtc ttcaccaagg gccggaagat acgcat
                                                                    696
<210> 4695
<211> 225
<212> DNA
<213> Enterobacter cloacae
<400> 4695
tgcccgaagg cgttaaaagg gatagagaat cctttcagaa gagcgtttga gttgcagcgc
                                                                    60
agatectece tgaaatgeee etegtgeeet acaatetgte aacagaatgt gaaaacgtea
                                                                    120
atacaggtgg cggggattta cgtggagtgt gagaaaccgc aaacaaagat taaaaaaacc
                                                                    180
ctgaccgtga gttttcagca gagaaattta tgctactcgc catga
                                                                    225
<210> 4696
<211> 255
<212> DNA
<213> Enterobacter cloacae
<400> 4696
60
gaacggcagc tacagcagaa gggtaaaggg ctggcgttga gatttgttga gccttggctg
                                                                    120
ctagcttttg ttaatcctga tgcgaagcag ggcaggtgtc agcctgttat ggtttgttat
                                                                    180
gccttactag ggaaaaccag ggggaaagtg tccaccgcta ccgcttcaga aaacttcagg
                                                                    240
tacacgaact cgtga.
                                                                    255
<210> 4697
<211> 228
<212> DNA
<213> Enterobacter cloacae
<400> 4697
aggggaggtg ttaagcacac cccctttgca accatcctca agcctctttc agatcgatgt
                                                                    60
tecagtttae ceggaagetg gegtteagat ttagttgtea aaaettatea eecaeeggea
                                                                    120
cagccagtgg ggatttttgg ctgtaaccgc tttaagttac agtttcttcc ttctgtaatg
                                                                    180
                                                                    228
ggcatgataa ggggccaaaa tttagacaat tattctaaca atccatag
<210> 4698
<211> 270
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(149)
<220>
<221>unsure
<222>(198)
<220>
<221>unsure
<222>(215)
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<220>
<221>unsure
<222>(217)
<220>
<221>unsure
<222>(264)
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<221>unsure
<222>(267)
<400> 4698
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                                                                      60
gtgctcttta gctcagctca gggggcggca ctacgcccgg cagtgaattc agcagatttt
                                                                      120
agcgagcaca gccgcgcacg ggatgtctnt ctctggacgg tggaaggatc tgcggggacg
                                                                      180
attgataccg gggtcaanaa tgaatatgga acatnongga ttatcgccct cttctgggtc
                                                                      240
aggccaatat ttctgggcaa acancantaa
                                                                      270
<210> 4699
<211> 240
<212> DNA
<213> Enterobacter cloacae
<400> 4699
                                                                      60
ggcggcggag tataccacaa gctatggcaa aaaatgcagt ggttgttttt tatacttgtc
gcgccqcqat tattggtcga cgcggattat gaaggtactc tgtccaatat gttagcggca
                                                                      120
attaaatgtt tatccccggt tcgtcattcg ttaattgttg ttacaaaaaa tcgcgcgctc
                                                                      180
tttttcgttt gggttaacaa ctgttttagt aactttttga atatcgatgc tagaaaatag
                                                                      240
<210> 4700
<211> 246
<212> DNA
<213> Enterobacter cloacae
<400> 4700
gcgtcagcag cgacttcagg cagtttactt cctgtgccag ttcctggtta ttctcqqcag
                                                                      60
tggcaaattc aggtgtgctc atttattttc ctcattataa aacagcgcat gagcgcgacg
                                                                      120
                                                                      180
atgaaagtta aggcggcgga gtataccaca agctatggca aaaaatgcag tggttgtttt
                                                                      240
ttatacttgt cgcgccgcga ttattggtcg acgcggatta tgaaggtact ctgtccaata
tgttag
                                                                      246
<210> 4701
<211> 318
<212> DNA
<213> Enterobacter cloacae
<400> 4701
cagagtgaga ttgaaggtat gcatagaact aaatttgaac gacttaagga tgaccttatc
                                                                      60
                                                                      120
ggtgaggccg tattatccat actgaaagag aacggaccta ttacctttgt gtctcttgct
aatcgcctgc gggcgatggc taacgttgaa tcaaatgatg aacgtaaaaa tgcattgatt
                                                                      180
gccgctgaag atgaagtgcg ccagcgtgta accggcgtct cgcacgaccg gggaagagtg
                                                                      240
atgggcaatt atgacatggg tcgcatgcga tctctcttta ctcacaacac gcttttgacc
                                                                      300
ccagacaaga aacactaa
                                                                      318
<210> 4702
<211> 183
<212> DNA
<213> Enterobacter cloacae
<400> 4702
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			1031			
cgtcatgtcg	ctgtatatct	tttcttcgct gtatcgcttt ggtcaagctt	aataatgcta	tagtcattgt	cgttagcaac	60 120 180 183
<210> 4703 <211> 246 <212> DNA <213> Enter	cobacter clo	oacae				
<400> 4703				•		
	catccactta	caatgaaatg	aatctagcac	accttaagaa	acaaattcat	60
		agctgtatta				120
		ggatatcttt				180
	acgaccactg	cgtttacagc	tttattttgt	ggggcagctt	ttgctcagtc	240 246
cagtga						246
<210> 4704						
<211> 555						
<212> DNA						
<213> Enter	cobacter clo	oacae				
<400> 4704		•				•
		aaggctctca				60
		aattcgtttt				120
		acggggtgca atcaggactc				180 240
		cccgcttgc				300
gtcaagcttt	ggcatttctc	acacagtact	gctgtagccg	gtgactgtga	tggtctgatg	360
		tattgaagtc				420
		tggtgggccg tgatctgttc				480 540
attactaacg		cgacocgcco	gcaagegeea	agecacegee	georgeoge	555
<010> 470E						
<210> 4705 <211> 183					•	
<212> DNA						
<213> Enter	cobacter clo	oacae	•			
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agccagatct	atcaatgctc	tcgcaaaatg	aaattgggct	actttccgag	attttccatc	120
2223	ccagtcaaga	ctacgaatcc	tgctttactg	tatgcgtggt	tcggtctctg	180
tag						183
<210> 4706						
<211> 246						
<212> DNA						
<213> Enter	robacter clo	oacae				
<400> 4706						
		ggggctttat				60
		gaattttctg				120
		catgctgatc ttgcaccccg				180 240
ttgtga	cgaacgagee	cegeaceeeg	caacaaccec	agacgacgae	egaccagaga	246
.010: 100=						
<210> 4707 <211> 309						
<211> 309 <212> DNA						
	robacter clo	oacae				

<400> 4707 aaacagcttg cgccaggcaa caaaaagaag accgacgcg ggcaacaaca atcaacaaaa agcaaaacca gaaccgacgg aaaggaacgc aggaggagca tgcccataa	tcacggccgg gcaggagatc gcgaggcaaa	ggggtgcaga cagaccgcgc accgggcagc	aggggcaaaa aaaacgaacc cgcagaaaga	acccgcagag ggacaaacag aggagaggaa	60 120 180 240 300 309
<210> 4708 <211> 213 <212> DNA <213> Enterobacter clo	acae				
<400> 4708					
ccggggaaag gatggtttgg gacatggtgg aaacggtaaa gatgggtttg cacgcattac ttggtgcgca tgatgcggaa	ggggtggaaa ccgcggtgat	ggaacgatgg gcatcactat	ggaatatggg	atatttaggg	60 120 180 213
<210> 4709 <211> 195 <212> DNA <213> Enterobacter clo	acae				
<400> 4709 atcttgcagt tggagattca ttctcacata ctcttatggc tactcctctt ctacctatcc ttatcctttt cgtag	acggtttccg	tgccttttt	ttgcctcgct	tacaagcgtc	60 120 180 195
<210> 4710 <211> 312 <212> DNA <213> Enterobacter clo	acae				
<pre><400> 4710 agagatttgt atactgttct gagaacagta ccaaaagcaa gatttcagca tagaacgact cagaaacctg gaagtgaagt tttgttacag cttcacactg gaaaatgcat aa</pre>	ctttcccccg actttcaacg aagaaaggat	gttgataatc gccgaggatc ttggttgagc	agttttgctt tccagcttga gattcgaacg	ttaccatgtt gtacatcttc tggagagcgc	60 120 180 240 300 312
<210> 4711 <211> 255 <212> DNA <213> Enterobacter clo	acae				
<400> 4711					
cgtcatattc ctgcgtgccg atttccgggc aggagattt cagcagcttg cagatttaac cttccgttct gggcgggctt gatgatgcag attaa	atcagggcgt acccttaatc	ggtgtgactg gccaaactgg	agcagcaact gattctgttc	ggggcactgt tgatgttgac	60 120 180 240 255
<210> 4712 <211> 183 <212> DNA <213> Enterobacter clo	acae				

1853

cggtcaaaac	aagacctggc	ctatatgcca gagagattta caaatttaac	atcaagcgtg	gtgtgactga	gcagcagctg	60 120 180 183
<210> 4713 <211> 234 <212> DNA <213> Enter	cobacter clo	pacae				
<400> 4713						
gtaatgccaa cgtgaaaaat attaaaaaca	ttaacggtaa cacctgcgat	tatccaaaaa ggtgtttaaa tataactact tatcggagcc	gttaacgaac gaccaagata	agatcatctc aattccggat	acgctttcag caccctgttt	60 120 180 234
<210> 4714 <211> 417 <212> DNA <213> Enter	cobacter clo	pacae				
valor bireel	obaccer or	,4040				
		gaaacttaga ttgggctttt				60 120
		cgctatattt				180
		tgcgacaacc tgtcagtggg				240 300
		cggaaagtat				360
aaaaatgccg	catccgatgg	aaagtccatt	ggtagcgccg	tacaactgcc	gagtatg	417
<210> 4715 <211> 198						
<212> DNA <213> Enter	cobacter clo	oacae				
.000						
<220> <221>unsure	2					
<222>(6)						
<220>						
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<222>(7)			•			
<220>						
<221>unsure)					
<222>(8)						
<220>						
<221>unsure <222>(9)	2					
~222/(9)						
<220>						
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<222>(57)

<220>

<221>unsure <222>(43)

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<222>(165)
<400> 4715
                                                                  60
120
nnntatccac egggacagge atcageetet taegeacetg ageeteatet eacagtttte
atgactgact atttcatccc gattcgccct ggtcccacca tagtnagtat tgcgacacgc
                                                                  180
                                                                  198
cgtgaagagt ccattggg
<210> 4716
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 4716
agttatcatg tgacaatggt tttatctggt ttgcttaatc aaaaaatcaa ctggtcaaca
                                                                  60
                                                                  120
gggtcaagag gtattttgag aaagcaatgt aaaagggact cttcggagtc cttttttatt
tgtattgaaa aaggttcgat tatgaatgaa aacatattac aaggtaacag gaaaaacctg
                                                                  180
                                                                  198
tcacactatc cacgctga
<210> 4717
<211> 183
<212> DNA
<213> Enterobacter cloacae
<400> 4717
atgaaaacat attacaaggt aacaggaaaa acctgtcaca ctatccacgc tgaattacga
                                                                  60
aagattggtg atttgattaa cccaatcccg aacaagaaat atcacatcaa aagaatgatg
                                                                  120
actaaaqcca ctcqcttatt actcatcaaa tcaatcaqtq aaaqaattaa aaataaccqt
                                                                  180
                                                                  183
<210> 4718
<211> 921
<212> DNA
<213> Enterobacter cloacae
```

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<220>
<221>unsure
<222>(180)
<400> 4718
atgaatgcga tacaaaagtt agttgaatct attcttgtta aaatgggttt tgttggcgct
                                                                      60
gtagtggaaa atatactt ggattcaaaa ccatttcggc atattcgatt tgtggctgat
                                                                      120
attccagtaa tatcttttct acctcatttg gtgaaatatc ttaagggcgc agaccatctn
                                                                      180
tactgtggta acgatgattt gcatcctctt ttcatttatt tttccgaagc ggctacatta
                                                                      240
aaagcaggcc ctgtaaatct cgcgaacttt cgttttgaag tttctatagc ttcaactcat
                                                                      300
                                                                      360
ttacgactgg tctcagagca gcctgatttg cttatcaaag gatttaaccg ggataatcta
                                                                      420
qaatacqttt attaccqctc aqatttqqcc tctaaqqatc ttatactagg ccttgttgaa
cacggttctc ctttcataaa acatctacat ggacttatac aaaagcgaat tttaaacgag
                                                                      480
ttctctctga tttttctgt tcttgaaaag attttagaaa gcgcgaagcc acaaattctt
                                                                      540
                                                                      600
gcttgcttcc atagtgttga ttatgaaatg aacgtaaaaa taatagccga agctatacct
gaaactgtat ctaatcagat agtcacatct gattatatag ttaattctat atcagatgcg
                                                                      660
gacaagttta taaatcatgt tcgtcgctat ttagcaggca gggtaatgaa gaggcggata
                                                                      720
                                                                      780
tacgctgaat tagatgtttg tgaagaaaca tcaaatattt cactagtgaa cttaggatgc
tttacgtctc ctctgctcgt tacggaatat caaatgttta agccacactc ttcagggtta
                                                                      840
                                                                      900
tatcgaaaag ctataaacaa ctccttaaaa cagttcaaac cagaaatgca tgtaccttct
                                                                      921
gaagaactct tttataatta a
<210> 4719
<211> 531
<212> DNA
<213> Enterobacter cloacae
<400> 4719
                                                                      60
atgtttaaag aatctgacca cgtggaattt gttagtgcct ttctttatca aaatttaggc
                                                                      120
cttaatgttc ccgctgacga tataaccgtt caattatctg atacttcgtt cgacaaagta
                                                                      180
acctttgatt acgatgtaga tatcgataat ttaaattgta tgttggatct ctacatatct
                                                                      240
gaactaataa agcacaacgc atcttattcc gattctattc ttttgaaaca aaaaataatt
                                                                      300
tattttcttg gagtatttaa gaatttcgga ttttttacgt tcgatattcg cggatatagt
                                                                      360
aatactttaa gcccagttaa agttattgat attgtttcaa tgattattaa tgactgtgaa
                                                                      420
gagttatcta aagctaattc ttctactgat gctataagaa atctttatct cgataaaatg
                                                                      480
aaggtggatg ggaaagtgtt agttgcgaaa tttgcactta aacagttttt tcattccgac
tttggtgact ttatctcatt tgtcgaagaa aagaattaca gattgtctta a
                                                                      531
<210> 4720
<211> 669
<212> DNA
<213> Enterobacter cloacae
<400> 4720
tctttcattg ttaaccattt gaggtttcct atagttttaa gggaagggtg caaaatcgaa
                                                                      60
agaggagaag totattoaat ttogaattgo acttataata aagaaagatt goagtatott
                                                                      120
                                                                      180
ttttctcagg atatttacgg taagttgtat aattccttag agaaagaatt aagctcgttt
                                                                      240
ttctcattta tcaatgttga ggtgcacgag ttgttaaaag atgctgtatg ctttgcatta
aaaatcctga ataagatatc tttggataca cctgaaagac ttattaaagc ttttaattat
                                                                      300
                                                                      360
cgtgactggt attgtagtta cgatgttgag ctttttagga aaggcttacc tggtcatatt
                                                                      420
ctggaagagc tcattgctcc agatatctta ctttcagacc ttaacggttg tagaaaaata
cttagaaatg caaaacgatt tctaaatgga catacaaaaa ccaattgtgt ttatattaaa
                                                                      480
tatgaatggt ggttggggcc tgtggatacc tcacactcag ctaagttgat gtctgacaaa
                                                                      540
gaaattaata accgaagtga cttgaagaat ttttcaaagg tctttttcaa agagtgttta
                                                                      600
                                                                      660
agttctggta agtcggaata tgaaaaccat cttagtgaaa aagaacatgc gcttcgctac
aattattaa
                                                                      669
<210> 4721
<211> 498
<212> DNA
<213> Enterobacter cloacae
```

```
<400> 4721
ttgcgaaatt tgcacttaaa cagttttttc attccgactt tggtgacttt atctcatttg
                                                                      60
tcqaaqaaaa gaattacaga ttgtcttaat gaaactttaa ggattatcaa agctgttgaa
                                                                      120
catggctttg tacgtgttgg gcagcataag attaatcgcc gtattaatga tgacttaaag
                                                                      180
ttatgcattg atttcaatac tgatgattat ccggcaaata tgccagatat atatattaag
                                                                      240
                                                                      300
tttaacgata catttgatgg gaacggggcg ttatattgtg acaatgatgc cctcatatcc
                                                                      360
ctctataccg atgttgcttc aattatcaat gtgccggtga tgatggaagt aagattgatc
                                                                      420
aataaaaqaq qqcqtqttqt ctqtqattct tcqcattcaa cttacqtatc tctcqaaaqt
                                                                      480
aatqaccqat acaqaqtaac tqatcqcaca ttactaataa ctgaagcttt tgacgatttt
                                                                      498
cgtaacgcgt ctcaatga
<210> 4722
<211> 270
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(70)
<400> 4722
ccaaactttt atctaaccca gtggggaagt cgcttccctt ctggggcact tcctctcaaa
                                                                      60
                                                                      120
tttgaggtan tgtatatgac acattcatct gatgataaaa actatgtccg agcagttctg
agctatcttg gcatagattt tgatgaggcg gatatagtat taagtgtttg ccattgtcaa
                                                                      180
                                                                      240
agtgacgage tttettttae etgtaatate aaagetattg aacteaagaa tgetgttgat
                                                                      270
ttatatgtcg atagtatctc tgaacaatga
<210> 4723
<211> 195
<212> DNA
<213> Enterobacter cloacae
<400> 4723
ataaqatatc tttgqataca cctgaaagac ttattaaagc ttttaattat cgtgactggt
                                                                      60
attgtagtta cgatgttgag ctttttagga aaggettace tggtcatatt etggaagage
                                                                      120
                                                                      180
tcattgctcc agatatctta ctttcagacc ttaacggttg tagaaaaata cttagaaatg
                                                                      195
caaaacgatt tctaa
<210> 4724
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 4724
                                                                      60
attcagcaaa ttgccgtaaa aaacagtaca gcactgaatg acaaaaaaat tcccttcaat
                                                                      120
accactaaaa taaccctcqc tatcatcatt aactttattt attaccgtca ttcagttctg
aatqtctqtt tatccctaat tqaaccqqat qcttcqcatt cqqttttttt ttacctttct
                                                                      180
ttacqtcaac ctacatttaa tgtgctaccg cttggtaatg ataacgacta ttaa
                                                                      234
<210> 4725
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 4725
gttaattttg attactttca tttatgggat attaaaagct tgattctttt tactagccgc
                                                                      60
ctgattccca cgaaaatatt tcagatgatt ttacgggctc ttcaacatat aaaccaaaat
                                                                      120
ttgaaggact gctctgaaga gcccgccttc ctgcttcctt attatttagc cattttcttt
                                                                      180
                                                                      186
ttctga
```

```
<210> 4726
<211> 231
<212> DNA
<213> Enterobacter cloacae
<400> 4726
                                                                      60
agacaaggat taactcaaag agaattatct gccatgttgg gtgtaactca gcagacttat
                                                                      120
gctcgccttg aggcaaatcc ttcaaaagca agttttgagc gtctatacaa agtgttacat
                                                                      180
attttagggg tggagatttc gctcagttct gcacctcttt caacttatac aaagcctacg
                                                                      231
aattttgtag aaaaggagtt tgattcaccg gcaaggcgtg aggaatggtg a
<210> 4727
<211> 507
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(7)
<400> 4727
                                                                       60
aaactancgt tttccgttct cattacagcc tgtggagata aggatggaca ggttaaaaaat
cagtctgtca ggattgtaga tatacagcag gtaattatca actcaggtct ggccgaacag
                                                                      120
                                                                       180
gaggctgaac acctgaaaag tgtcaggaag acgctggccg atggacttac gcttgctcag
gctcagtatg aaaatttacc tgaagagaag aaaaatgagg cgaagcagaa cgataataag
                                                                       240
                                                                       300
cttattgaat atcaatggca gaatgagaga ttccttgcca gaaaggctgt aggccaaacc
atccagaatg caatagataa gtggcgtatt aaaaacaata tctccatcat aattccacga
                                                                       360
caacaagctc tttctctgga tgaagggctg gatattaccc cgctaatcgt aaaagagctt
                                                                      420
                                                                      480
aagggggcga aagttaaatt tggagaacta ccggtgatta gtttaaaaca aaaagaaaac
                                                                       507
tctccatcag aaaaagaaaa tggctaa
<210> 4728
<211> 204
<212> DNA
<213> Enterobacter cloacae
<400> 4728
                                                                       60
agetteaaae ttattaataa gegteaggtt ttaatgetea gtaacataag gatggacagg
                                                                      120
ataaaaaatc agtctctcag gctagtagat atacagcagg taattataat ttcaggtttg
                                                                      180
gacagacagg aggctaatca cctgaaaaaa cttcagggga aaagttcatc gatggacttg
                                                                       204
cgcttgctca ggcgctcagt atga
<210> 4729
<211> 213
<212> DNA
<213> Enterobacter cloacae
<400> 4729
tcacctgaaa aaacttcagg ggaaaagttc atcgatggac ttgcgcttgc tcaggcgctc
                                                                       60
agtatgaaaa tttacattaa gagaagacaa atgaggcaat acgacaataa gtttattgaa
                                                                      120
                                                                      180
tacctggggc gcaggtcagg aaagttagta ctgttgtcaa ccaaaggact actttcaaat
aaaactaccg tctcagcatt cttaggcatc tga
                                                                       213
<210> 4730
<211> 717
<212> DNA
<213> Enterobacter cloacae
<400> 4730
atcgcttgtg gtctaacttt caaaaactca tgtaaaggtg gtcagatgtt aagcagtaaa
                                                                       60
                                                                       120
aaaaggaagt cccctacaaa tatcaaagaa tcgctcaatg ataacgctga ccgtttttat
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```
aagatgtttc gcattcatac cacggcaaaa gttgctatgt cgctaattgc catgaccgct
                                                                       180
                                                                       240
 gtagggtttt ctttctacaa tctttacgaa caatggcagg acgctgaagg gaagaaagac
                                                                       300
 catatagctg taatacggat ttctggcgag atgggtaccg gctcggaaac gggcgatgga
 acagtgatcg caacagctct tgccaaagct tacaataatc cccatgccaa agcagttatt
                                                                       360
 atcgaggcag agtcaggtgg tggtggtccc tctgacgcca tcattattta ccgccagata
                                                                       420
                                                                       480
 aacgcgctta aaaaccacca gccacagatt gaacgcgtat cagatgccgg tggctctctt
                                                                       540
 tcatctgtag ccgctgacaa gagtaacaaa accgggagca cagaacgtgg cgatgaagca
 cggtcgaagc aaaactccct cgaagtactc tccagcggta ccggtcgttt tttctctgat
                                                                       600
                                                                       660
 atcqcaqact catataaacc aatcatcqtt agtqtqaaaq gcatatqcqc atccqcatqc
 tattacgcgg tatcgcccgc tgatgcaatt tatgccgaca gtaatgccct gatcggt
                                                                       717
 <210> 4731
 <211> 585
 <212> DNA
 <213> Enterobacter cloacae
. <400> 4731
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                                                                       60
                                                                       120
 gttactattg aggactetee etttettet eggttaaaat ttaaaateat tactgeeata
                                                                       180
 gatcagette etgacectaa tggeetttat acaaacacet ttaacageat tattgacegt
                                                                       240
 gcactgctga ctcatctcaa aaccgaacag gaaaaaatag atagtccaag agtctgcaaa
                                                                       300
 aatgtgattt cggcttttgc cgactcaact ctttctctgc cggtgtttaa catcggccta
 aacgagcagt acagatactg gacgccgtgg ggcatcaact ttatagaatt ttcccgccag
                                                                       360
 gccgcaaaag caaggaccgc tgtatttgtt cctgatgtgg gacagatcga gtggaaaagc
                                                                       420
 gcagagcata aagaactggc ggagttaagc ctcatcgacc aaatcatacc taaacagtac
                                                                       480
                                                                       540
 cactggctcc tgggtatccc gacgatgtgg cgtaacaact attgcaatca cgatcagagg
                                                                       585
 ctagctcttt ttcgtgaatg gagggaaagc aatggctgcg gataa
 <210> 4732
 <211> 690
 <212> DNA
 <213> Enterobacter cloacae
 <400> 4732
                                                                       60
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 ctcagaacaa tgctttttt tggcatggtc atttattttg gttacagctt ggctttccag
                                                                       120
 aatactgagg agctcaaata tcagattact caggaggtta atgcaagccg gtccatcata
                                                                       180
                                                                       240
 tcaaatgacc gttggaagtc tgtcattgca aatagtgaag cgactttaaa ttggttggta
                                                                       300
 catgactata agttaattga ctatctgaat actattctga tccctgacac caaaaaacca
                                                                       360
 gccagaggta ttaacattgt tgctgaaaaa tttacctcta ttaattacac tatggccaaa
                                                                       420
 aacatacccc tettacttta teagteeatt tteeggtgga aettaateet ggggtggeta
                                                                       480
 atcqtttttc tgccctatct atttgccatg ctagcagatg gaatgtacca gtggaaattg
                                                                       540
 aagaggtacg tatttggtaa ggttacagtt cagttttatc gtatttggtt tcgagcattt
                                                                       600
 tgggtgatca gtgctttaac gatggtctac ctggtcatgc caaatatgtc actatttaac
                                                                       660
 aatategete aactttteee accagteget ttattgatae tgggaattge attgaatege
                                                                       690
 ttgtggtcta actttcaaaa actcatgtaa
 <210> 4733
 <211> 510
 <212> DNA
 <213> Enterobacter cloacae
 <400> 4733
                                                                       60
 ggatcgatga acaacatatt cttacagttt cacatttatg ggcttgatgc aagcaaggat
 tatagtttaa gtataataac aaggaatggg agccaaccag caacagttat caatattgat
                                                                       120
 gatcctaaga accgggacct cgctctttta aaagtagaaa aaaatactat tgtcaaagcc
                                                                       180
                                                                       240
 ccacctaatt ggaagcttcc agtatgtgat aatgttctag ctccaggtga gtctgtttgg
                                                                       300
 gttctatcgg gaatgtataa tacgctttca aatacgtatg cttcccccga ctcaacctac
 tattataaag gaatagttgg ttctgatggt ttgactgctt tttatcaaaa tggagttagt
                                                                       360
 ggaagcgctg tgttaaacca atctaagagt tgcttatatg gtgttgtgag tcaacaagac
                                                                       420
```

attaaaaaga tcaatgtcta tcagatatat attacgaaga ttactacaaa tgaaattata

480

cgcggattca	taggttataa	aaataattaa				510
<210> 4734						
<211> 258						
<212> DNA						
<213> Enter	cobacter clo	oacae				
<400> 4734	 					60
		ggcaattccg catgtataaa				60 120
		tctactcagt				180
	-	ggcgtggttc	-			240
ctgtataaaa			3			258
<210> 4735						
<211> 183 <212> DNA						
	robacter clo	nacae				
12102 2	. 0240001 011	, , , , , , , , , , , , , , , , , , , ,			•	
<400> 4735						
		ttcttattat				60
		tgtaaatcct				120
	attcgcaggt	tatcaacgtt	gatcggcagc	gtcatcctga	gtggttccgt	180 183
taa						103
<210> 4736						
<211> 183				•		
<212> DNA						
<213> Enter	robacter clo	oacae				
<400> 4736						
	cttttttaga	ggggcttggg	gcgtggggaa	tggtctacat	gactaagcag	60
		gcaacttaag				120
cccgacgtga	aaggctacac	cggctgggat	catatgcgct	gtgatatgga	tgcggggcga	180
taa						183
<210> 4737						
<211> 711						
<212> DNA						
<213> Enter	cobacter clo	oacae				
<100> 1727						
<400> 4737	gattatgtac	cgttctcgca	actacatcca	ttatactaac	aaccaaatac	60
		acaggttgtt				120
		aggtgaactc				180
		ttatcggatt				240
		ctgggatgac				300
	_	tttttcggta				360
		ttctttcacc				420
		atcaaagcca				480 540
		ggatgacgga ctggggaatg				600
		taactggcaa				660
		tatgcgctgt				711
		-		_		
<210> 4738						
<211> 711 <212> DNA					,	
	cobacter clo	oacae			-	

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<221>unsure
<222>(634)
<400> 4738
                                                                      60
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caggctaaag aaccgcccac acaggttgtt taccggttcg atgatcaccg ttttctcgaa
                                                                      120
ttgaaaggct ggggctgcga aggtgaactc tggtatacgg atacttttcg gggtattcat
                                                                      180
accaggeceg teagteaatt ttateggatt tteaccaaaa aatttgttea teettetgaa
                                                                      240
                                                                      300
cgatatattg ccatacccac ctgggatgac ccaggaacaa tgatttctaa agattatggt
aaaacatggt ctccccagtt tttttcggta gggcctaatg agcccgatgg tactaaccaa
                                                                      360
ccatcctatg aggatattat ttctttcacc gtcgtcaacg accagggttt tttacagacc
                                                                      420
aaacaccggc tgtatatgtc atcaaagcca tttgaagacc cgcgcattct gcccggcggg
                                                                      480
                                                                      540
ccggggattg cctataccgt ggatgacgga atgggaaata aagtcagcgg gaagctggac
                                                                      600
ccccgttccc ctggctgggc gtggggaatg gtctacatga ctaagcaggg gctcgagggc
                                                                      660
agcacgcagc aacttaaggc taactggcaa gatntacccg acagcgtacc cgacgtgaaa
                                                                      711
ggctataccg gctgggagca catgcaatgc aacatggatg cgggaaaata g
<210> 4739
<211> 204
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(86)
<400> 4739
ggagataaag cgatgaaagg cgtcattagg ttaaacgatc cgctgataag cggaagaaaa
gtcactaagg cctctggggc aaactntatg gggcagcccg tggccttaaa agatgatctt
                                                                      120
                                                                      180
gcgcagtgtc cgctccataa agggaagttc gcaatcactg attgtcacca acctggaaca
                                                                      204
tgcattggcc ttgggttgtg gtaa
<210> 4740
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 4740
                                                                      60
atggctaaat taacagacat ttacagttac ccatcgttga tagaaattgc ctatcaagcc
                                                                      120
ttgtcatatc tgagttttaa cctatcaact gtttatattc gaaaaaggaga taaaaagcag
                                                                      180
tttttatata acctgttttt tgtctcaaaa ggagatagtt ttgatactgc tgaaaaaggt
                                                                      198
ctaaaaaggt gtgtttag
<210> 4741
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 4741
                                                                      60
actggcgacc aagatcgaga atggtttggg cacgaatgtt tccgtcgagg tggcggtgaa
tatcagttaa aggcaggcgt gtatcaatca tggtcgcact ctttgctggt taaagtgcgc
                                                                      120
                                                                      180
catattataa aaacaaaacg gggtaaaaag ctatttgcgc aagggaatat tccgttgcgc
aaataa
                                                                      186
<210> 4742
<211> 303
<212> DNA
<213> Enterobacter cloacae
<400> 4742
                                                                      60
gcgcgggatt cagccaggcc tgtgcggcaa gacgaaggcg ccaaagcggg tgctctggtt
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cgcacaggca gagcacaacg	gccagataac aaaggcgccc cgaaagagag cagtaaaatt	agacgaccgg tgagcaacgt	caggtaaaat agggatatta	gccaggacga aatcgcatga	agaacggaat tgacggtaac	120 180 240 300 303
<210> 4743 <211> 222 <212> DNA <213> Enter	robacter clo	oacae				
ttacgagagt cataaagata	ttaccgacaa tcaatcactc atacatggat taagtctagg	aacgcctttt gatttcactt	acatctcatt tcgcaggagg	ttatttatat attttaatac	caccgactat	60 120 180 222
<210> 4744 <211> 516 <212> DNA <213> Enter	robacter clo	oacae				
gaagggttat cccgttacca aggatttttt agaagtattg tctgatgaaa acctgcactg cctgacaaca	cacgttatca cgcgatccgg cggatgagcg atgctgcggt cagatgagaa aagaagtcgt agaagaatct ttagaaagct	tttaagccc ctggtggctc gcgggagttg tttcacgtcc gtttagtgat cgtcaaactg atccacggac	gttctgctac gcaaaggaaa gtcataaggt gaacatatgg tacctgcgca acgcaagatt agggatgcac	tggcatcccc acgtgtcagg cggatatcat ggtacttcga ctctcgctga tatacccgat	gaccacagta acattacggc ctcagtagtg gcgacttacc aggcggtctt tgatgcaact	60 120 180 240 300 360 420 480 516
<210> 4745 <211> 501 <212> DNA <213> Enter	robacter clo	oacae				
tccatcggaa atggtaatac atccctgttg gctgtgcatt cgttggctgg cttagcgaat gattggtact	tgatagtaaa ggtatttaag gggaaaaacc ttacaatagt tcagtacaat atttatttga tacacgaaag ggaaagagaa aattcaagta	attttggcaa atatcaactt aattttatct tatcacgatg agaaaaatta catacgtgag gatgacatat	gcagtagcgt atggtcgctt ggtcagcaat gtgtttgttt gccatttata aaaaatgggc	cctctggttt tgattgcttt cgcataagtt tgcgtcgaaa aacctaatga tagacttgca	acccatggac atatacggcc ggaactaatt gatggggaaa taaactcgcg ggatttacaa	60 120 180 240 300 360 420 480 501
<210> 4746 <211> 186 <212> DNA <213> Enter	robacter clo	oacae				
aatcttaaat	cccgtattac accttccgat tcatgttaga	ggacttaaac	cttttcccgt	ttttatgcat	aaacctgttt	60 120 180 186

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<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 4747
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                                                                      60
                                                                      120
gctgccatcg cgtttgcact gagcaaaagc gcagccaaaa tggcgattgc gattcttttc
atgatatgcg ctccacgact gcgtgctgtg atacggggga atgctctcct tctctgttca
                                                                      180
                                                                      201
gggtttctga ttaaagtgta a
<210> 4748
<211> 189
<212> DNA
<213> Enterobacter cloacae
<400> 4748
cgtgatccgc caggetttet gatcccgcct ttcagegcaa geceetgeeg caagegggge
                                                                      60
aaaaggcaca aaacaacaac tattttacaa attggcgacc tggcaggctg ctttatcgcc
                                                                      120
                                                                      180
cctttaaatg atatactgcc tgtcgttcgt tcaaaaatag ttgataatta caacattccc
                                                                      189
ttgaattga
<210> 4749
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 4749
cgcaggtggc acatggaaat tgatctcgat aacttactct ttaacgggct ggatgaagca
                                                                      60
                                                                      120
gaagagcgca acgcggaacg tctcgacgat gcggataaaa aagcccaggc gattgtcgcc
gatgacgact gcggggaatg cctgcaagat ctgaagaaaa agcaccgggc tccccggtgc
                                                                      180
                                                                      234
tttttttatg aatgeetttt gttaeetgat ateagatete eggegttttg etaa
<210> 4750
<211> 231
<212> DNA
<213> Enterobacter cloacae
<400> 4750
                                                                      60
cccggtaaaa aacaacgaca ccggtgtgaa cagataaagt tgcacgcgaa agttctggtt
                                                                      120
atcaccaaac gcgttaatca tcattttgaa aactttaaac agataccaca gtgtcaacag
tacggcgaac caggaaaaat agataattta ccgaattcga ccatggttta tggttttacc
                                                                      180
                                                                      231
gaaattcgca ccgttaaaga atcccaaatg aagcaccata ttcctaaaag t
<210> 4751
<211> 1110
<212> DNA
<213> Enterobacter cloacae
<400> 4751
                                                                      60
qtqqatcact ttttacccqt tqttqacaaq atgqctttaa attatattcq tqccqaqcqt
gaggcagaag aaccttaccg gcagatgctg agccaggctc tggccgatgg aaatattggc
                                                                      120
cagectaate tgagateaga gttgatagat egatgeattg tageetggeg agetgataae
                                                                      180
aggggggcga cgctggaagc tgccatgagt acagagaagg gctccaaaga gctcctgaac
                                                                      240
                                                                      300
cagctctata tgctcgctga tgtggggctc aaacatcttc ccggggttcg taattttatt
agcagcaaag gctatgagct ggtcaggtta tcggtaaatg cttcagggaa acttgttgca
                                                                      360
                                                                      420
tatgccgcac cagcaaattt tgaatgcgac aaccggatgg aagggcatgc ctgggttcat
                                                                      480
cgaatggtac ttgctacatc ccgaaatgtc ttaaacgtca ctcatcaacg ttttgcgaaa
                                                                      540
atgaaacact tettaccage tgaaaacace etgttegaag atgaacaget ggtggecaca
                                                                      600
tggtcgggca aaaagactgc tttcaaaagc ttcgaagaga agcagcgtta ttttgataca
tgctcccgtg gcgctcaggc tcttaagcag tttttaaagc tgaacgatcc ggtgatttac
                                                                      660
accaatctgc ttggccagtg gattgaggcc tatgaaagta tcaatgaaac cagtgagtac
                                                                      720
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780
gtacagcaag taagcctaat ggctcctgtt gcggtcaaga gcgaaaaagg taaagccagc
ctcatctata ttggcactaa agacctggcc gactggtttt atcagaaagc gccgacaccc
                                                                      840
gagttgcagg cgctgttcct tgaggaatac ctgtccaaat ttgaaaataa agaggtcaat
                                                                      900
aaagaaaagc tactttcacg cagaaatacc gctctgtctc tcagttttta caccatggac
                                                                      960
aacggggaag taccagatga aatcctcgtc accaaatcag ttgataatgc cagacggtgg
                                                                      1020
                                                                      1080
tattcaggaa tgttcacaag catgccaacg atgttaaatg accagtggtc cgtcttcacc
                                                                      1110
acgggagctg gcaggatccg cgcttattta
<210> 4752
<211> 276
<212> DNA
<213> Enterobacter cloacae
<400> 4752
                                                                      60
aactggcaga tttgctacac agtaaacctt catcgccgcg tcatagtgcg ctttcataga
                                                                      120
cgatatctgc tttcaaaggt gagcagattt gccacatttt tcatgtactc cctttcaggc
                                                                      180
ttagagagtt ttattgtgca gtcacccgaa ggcgctcctc acagactgcc ggaacattgg
                                                                      240
tggtcgcagc ttaagtgcga ctgtagccac ccgaaggcgc tcatcacagg ctacaagagc
                                                                      276
attggtggtc gccagtgcga cagtacaaca gtttga
<210> 4753
<211> 459
<212> DNA
<213> Enterobacter cloacae
<400> 4753
cggaggggca ggagatatct catgtacaga aacgacagaa acgtggattc cttcaacctg
                                                                      60
                                                                      120
gttaatgctc ttcagccggt ctttcgtaac accggctgtg ggatgtttga atatgatcgt
                                                                      180
aaaaagcaga atgaaaccgc tgattcaatc ttacgagcgt tggcgttaaa tgccgatttc
                                                                      240
gcgagggcct taaaacagta cgtccggatt aattctgtac gacgggttgt tcagttcgat
                                                                      300
gacggctcgg ttcgctatgg tattcatgcc gaatttgaag ggcataataa aattaattcc
                                                                      360
ttccgtattt ttaaagatga agatacagac gcatttgact cctattttta ttcggtttgc
                                                                      420
gataataaag ctgagctggt ggattttaaa atggactctc tcgatattca attgcaggca
                                                                      459
gtttttgaaa aggtgacagg tatttttctg tcacattaa
<210> 4754
<211> 369
<212> DNA
<213> Enterobacter cloacae
<400> 4754
aagaaattac agtgtgggtt attagccagt aggtcggagt tttatataat acccaaaaac
                                                                      60
acaggaggta ttatgaaaac caatctggcc tatgcatcta attgctccga ttctgtctac
                                                                      120
tectatattt ateaggeaet geaaaaaege tetggtgeeg agaatgaaag eetttateag
                                                                      180
                                                                      240
caqqccattt ccaqctqctq cacaqataaa caaaaaaaga aactggccgg gtattatgcc
qqtccatqqa aqctqctatt caacqcqtqq tqtaacaatc gcgtccctaa cacagcggtq
                                                                      300
                                                                      360
ctggcccttt tactccagca gtgcttatct catttccagt gcgaaaaagt gatcgcagcc
                                                                      369
tggcagtaa
<210> 4755
<211> 555
<212> DNA
<213> Enterobacter cloacae
<400> 4755
aatatagatg agatgaatat gaaaaacgta aatattttgg ataccgatat tgcggccatt
                                                                      60
                                                                      120
aatgctcttt ctggcgtaaa actgactgac tttctcactg ccgggtatca ggtaaactgg
ttaggagaaa gggaggtttc gctggtgggc tttccgtgtt tagcaagcaa caagcagccg
                                                                      180
                                                                      240
gtagaagttg gtcccggcat tttcattaat cgcgtgtaca gcagagacag ccagtctctg
                                                                      300
agcgggaaat tgcgctatga cctgtctaat ggtctggcaa cgagtgcatt ttcatttttc
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teccagteag getggtatgg gggatteegt gtegtatett teegtgacaa egggeeaget

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gcgttaatca acattggtat tgtccatgag aatgttttga atgcattttg tgctgacttc
                                                                      420
ccccgggcca atgtgagcgt aacccgtttt cattgtggca tgacgcttga gcagatccga
                                                                      480
atgttcattt cagacactgc ttacgatatg ccgctttata acaacgagtc tgactttcgc
                                                                      540
aggctcgcca gttag
                                                                      555
<210> 4756
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 4756
aatcqccaqc agatatcaac gcccattaag aaactccatt actatcgttc gtatgagata
                                                                      60
                                                                      120
actateattt cagaataeta tgaettette eegtatagaa etaategete aegeeattta.
                                                                      180
qctacttact tttttttacqt acqcttqcaq cqcaqtacct tqaqaqaaqt aagtaagact
                                                                      237
gggcgaagcc aaccggttcc gccacctcgc tcaccggctt ttaggcgtaa gcactga
<210> 4757
<211> 243
<212> DNA
<213> Enterobacter cloacae
<400> 4757
cgtatcaccc tttcgagcgg cgggaaaacc accgatgatg acgtccgggc ttccggactg
tattggcccc gaatgtgcgc tgacatctat ggtcgctctg gcggcaggct gtcccatgtt
                                                                      120
caaaaatcct tctacatatt agctgttaat tttaacaaca gcgcctttaa tatctgtcag
                                                                      180
                                                                      240
gtttgtacca ttgagatgaa gagtatcatt agctttcatc tcggcattta ttccgccgcc
                                                                      243
taa
<210> 4758
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 4758
acttctactt ctacttctac tttttctaac aaagatgaaa tttttgtccg catttccccg
                                                                      60
gttctgttgt tcctgtcatt aaccattgaa gaagtgttaa catcaaacaa attcgatata
                                                                      120
                                                                      180
acatatgtgt ttttgacttc ctggtttaga agcgcgatac tatttattca acgcaggaga
                                                                      186
tcctaa
<210> 4759
<211> 630
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(481)
<400> 4759
acaactgtaa ggtcaaatat ggaagctatc aataattaca atagcggttt aaatcgccat
                                                                      60
caattaggtg ggtttatccc tgtttacgat caattagcag ggactcacta ttttttgatt
                                                                      120
gatggcaaca gattagggtt tatgtttatc tgtaatccat cccctggagt ttttgataat
                                                                      180
cagcaagatg ttcttgctga aatgttcaaa atggatttcc ctacagatac tgtctgtcaa
                                                                      240
                                                                      300
atatetetga etgeattgee agacetgaet ttaeagetta gtgettggte agetgtgega
ggtgggcgta tgactgggaa cgataagctt aaagcagatc tgcttaatgg ttatcagttg
                                                                      360
                                                                      420
gactactacg acagaagtat gcataagcct ttaaaacctg atcatgatac ccttatgttg
                                                                      480
agggattttc aggtatggat ctcgctatcg attcctttac agtttgcctt tcctaccgag
                                                                      540
ntggaacatt cgcgtatcga ttcactttac tctgaacttg taagtaagtt aattacgatt
ggattgcatc cgtttaaggt cgatgcagaa aactggctct attgtataga taaggtcgta
                                                                      600
                                                                      630
aaccccgcga aagaactccc ggtgggctga
```

```
<210> 4760
<211> 459
<212> DNA
<213> Enterobacter cloacae
<400> 4760
actttcccgt tggggtttat tatgaaaaca cctaatgaag ctgaatcaga gcttttacag
                                                                      60
acattagete aagtaegeag egtaaataaa aagegacate atgaegagge ggaagageeg
                                                                      120
gataagccat cggtagtgaa gaggcaacgc gttacacaag gcttaacgcg gattagtact
                                                                      180
ctcgatcgcc aggctgtact gcatgcagcc atacgggaca ttttgctggg gaaaatcaca
                                                                      240
                                                                      300
cagggagagg cgctgaaaag gctcagggtc gaggtgttag ggctgaagca ggatgaatat
                                                                      360
gcaaagctgg tcagcgtatc ccggaaaaca ttgtcggatg tagaaaataa cagaggcaat
                                                                      420
tattccgctg acgtcataaa taaaatcttt aaaccctttg ggcttcaaac cggactagtg
cccgtttcaa aatcgcttat cgcttcactt ttctcataa
                                                                      459
<210> 4761
<211> 189
<212> DNA
<213> Enterobacter cloacae
<400> 4761
tactcccata actctaatca gcctggctgg tttaaccctt cggtacctgt ccatcaggtg
                                                                      60
                                                                      120
tegttttttt cegtaagaat gtetatagat ggegeteege agaaagaggt gggtgttaeg
gttattctgc cagaaatccc gttgtgttca ggctgtgtcc tgtcgttccg gcaggacact
                                                                      180
                                                                      189
tggctgtga
<210> 4762
<211> 939
<212> DNA
<213> Enterobacter cloacae
<400> 4762
gttatgacga ttgaaagett tttcategge actegeatgt caggaaaacg ttatggacet
                                                                      60
cagagtaaag acatgcaggt ttctgaattc atagcactta tatctccgaa aaatgaacca
                                                                      120
gagaaatttg tectaeeega ttteteeggt etggeaegte ggattgaege eeagateegg
                                                                      180
                                                                      240
aatcagttta ttcagcaaaa agaggatgac tattaccgtc gataccgaca gctttcggac
                                                                      300
cggtggtatc aggccggctc tatcagtgac agaaacaatc gcagccagcg ttttgagaag
gtcatggatg agtcgcttga gtttttggtt tacagtcatg atgttatgcc caacatcaac
                                                                      360
ccatataatc tcaaatacga tgatcgcgtt caggttagca cgaaaggcaa aatgtactgc
                                                                      420
                                                                      480
gtagcgcttc tgttccatat tatcgctcga gcggcctatg agccagtctc tgtaggtgca
gatcctacgc tgcaaaggca ttgcaagtgg ctgaaggact ggattaataa aacgttaggg
                                                                      540
                                                                      600
gatcattttt tagagggaat gatgattact ttcgcccttt gttatcctga ccactttcct
                                                                      660
gccctgcagc gccttagcgg agagttagaa acacgtgatg ttgacacatt cctggctgac
                                                                      720
gaagttcgta aggcaaggca acacacagag gaacaggtta attatcataa cggccggtac
                                                                      780
cggttgaaat tcgagtacac tcactttcac caggagcaat ttgattttt agccgaaatg
                                                                      840
cgtgatctcc attaccggat agatcgtatt gaacagctcc ttcagaaact gatagataac
                                                                      900
ccggtagtag atttcagtga agctgctgtt gcagggcagt ggattgacga acaagtacag
                                                                      939
ctgcttgaaa caaacgaaac gaagctaata ctcccataa
<210> 4763
<211> 291
<212> DNA
<213> Enterobacter cloacae
<400> 4763
agtccattga gtaggacgcc cgcgccctgc ggggctgaag agtgtttgac attgatagag
                                                                      60
tccattaacg ttaataagag gactctatca tcgtcaatcg ttagtaatcg caacaggcgg
                                                                      120
cagtggcttg acgcttacac ccaatctccg gagattcaca tgcctttctc tgatttctg
                                                                      180
                                                                      240
aaaatcattc agaagtttca gtgtgcaact gtgctggaaa aagtactgat gctgctgttt
gtaattctga tcattgtgca acaggtgatc gatacgttct gcagtcgata a
                                                                      291
```

<213> Enterobacter cloacae

```
<210> 4764
<211> 597
<212> DNA
<213> Enterobacter cloacae
<400> 4764
                                                                      60
tcaaggggca ttatggcacg cacatacgtt aagcaaacag tacagaacaa tgaacaactt
tttgattctt tagtgataaa tgccatagat ttccttgagt catcaattga tgatttaaat
                                                                      120
attaggccca agaattcgat tgttgatttc tatacagcca ttgaactttt cttaaaagca
                                                                      180
aggttaatgc tcgaacactg gactttaata ttagatgacc ctagcaaagc taataaacaa
                                                                      240
aaatttagcg ttggtgactt taattctgtg tattttaatg acgcagttca acgtctcaaa
                                                                      300
accattattq qcattaaact tqatqacaat atccttqatq aqttcaqaac qttaqqtqcq
                                                                      360
cataggaacc aaattgttca ctttgcacac actggatatt caagcactca agctaataaa
                                                                      420
gcaggggttg tagctcaaca atggtcttca tggcaccatt tatataattt actcactgtt
                                                                      480
gaatggaaag atgaatttat taaatttaag gaagagtttg agcgtgtgca taagagaatg
                                                                      540
ctgcaacaaa aagatttcct cagcacccga ttcaatgagc tttcaaaggg agattga
                                                                      597
<210> 4765
<211> 453
<212> DNA
<213> Enterobacter cloacae
<400> 4765
gtgaagacca atagattcat agtttctacc gttgattgta tcaatgaatt tgcaagtgac
                                                                      60
                                                                      120
gttccgcaga gtgtttcctt acggatagat acaatgcttg aacagcgtat ccgcaaattg
                                                                      180
gcggcatacg tgaaagaaaa cgatcttcat ttaactgagt tttacttcta tgacgctaac
                                                                      240
tggtcatttt gtggtgaaga tgaaattcaa gaaataaaag acatggatga atataagcat
                                                                      300
agegacagea taaageagga agegatgetg egggaagtaa tgeeateage aegtaeggaa
tgcccggtta ttagggtgat gaaagattca tttcagcttt cagctctacc acgccattgt
                                                                      360
ggtgatgaca tgactcttaa cactcctttt attccgctgt ctgagttgaa aacaaataat
                                                                      420
acggcattta ttacgccgcc aacctataac taa
                                                                      453
<210> 4766
<211> 414
<212> DNA
<213> Enterobacter cloacae
<400> 4766
                                                                      60
tgcagcatat accgtggttc aggaaaatat atgtttattg aaaaaagcga ctcattcctt
                                                                      120
gaattateet cagaagttat tttteetgag geggetaatg etgeeatttt gaaacatgat
aaatgggcgg atgtttggga gaccctgaca accgatgccg atctgaacta taccgatgaa
                                                                      180
                                                                      240
aaggagactg tgagtctttc ttctctggtc atgtcagcca catctgctat ttatcaggct
                                                                      300
attacggacg gctggacaat gtgcgtggga tacagtggcg gcaaagactc ccattctctt
                                                                      360
ctgcacctgt ttctgatggc attgatcagg gcagtacgta acggcacaaa tatcagcgaa
catcatttca ttcagatgtc cgatacgaac tactaccaca ctgttacagc gtag
                                                                      414
<210> 4767
<211> 222
<212> DNA
<213> Enterobacter cloacae
<400> 4767
gatatttgtg gtgatctcat aagcacattg tggacattta ttgatatctt aactgaaaaa
                                                                      60
tttgaatggt actttacact ttgggcaaag caaactatcg gtgaattgct ctaccgcata
                                                                      120
qcccttqcqa ttcccaaaca agaaattcat aaatcatctc ccccatttat qaqtatcatt
                                                                      180
                                                                      222
aactttaacc ggctttccac ggccccattt gaccgcactt aa
<210> 4768
<211> 228
<212> DNA
```

```
<400> 4768
                                                                        60
 gcaaaaccat tggctcggtc gctttcagtc cggttcgcca agacctcata tcagtacttg
 atggctgtgg gaaatcttcg ggatgcgtat gccattcgcc caaatagact agagaaccat
                                                                        120
 ctgattgctg aaataagtca tccacttttt gctgatgatg ttctcctttt ctttctattc
                                                                        180
                                                                        228
 gtgttcgcga tcttacatca cctgatccag gttctgatat gtgagtga
 <210> 4769
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae
<400> 4769
 catgattggt tcataggaac tatttactcc ccatacgtta tgaacatatt cttgccccaa
                                                                        60
 catcttgaca ttgccaatcc gtatgtaaaa atacaaaaaa aaagtgagca agatagagaa
                                                                        120
                                                                        180
 atggaatcaa aaaatagtag tttttatttt gatagagttg actttttatc taagtctatc
 agctattcaa cattaatgat ttcctgctta tcgatcgtcg ggattttttt gaattctcat
                                                                        240
 tggctctacg gtatcgcaac cctcactttt ataatacaac tcctcacttg gtttgcaatg
                                                                        300
                                                                        360
 cattttaaaa cttcgtatgc agctaaggct atagaaacaa aaagattaga aatgctgaga
                                                                        420
 ggtattatag gcgaggaaaa tttttatcga gagcggctct acattgatgg gaatgcggaa
                                                                        480
 aataaaaatg gctttcgtgc agagaggtta ataacactca tacaagagaa tgcatactgg
 aactctatct tatattaa agctttccag cagaagttat tctatttatt actaacaata
                                                                        540
 ctactactaa ttactataat tattattatg tataccacgc tgactgataa tttagatttt
                                                                        600
                                                                        660
 cagtatagcc gcgccatatt tgggatacta gtcataaata atttctataa tttattctca
 gaggtgtcag gttttctcaa cgctcacaat gagatgaaaa aaatagatag cttcatagag
                                                                        720
                                                                        780
 attaataacc gcaaagcacc agaatatcta tcttatatat attctaaata cgaacatgag
                                                                        840
 atatttattg ctccaagcat taataatgca atttatttaa aacacagtat gcaaataaaa
                                                                        900
 cagacctggg cccagcggct ttataataaa aataactttc aaagcaaaca attgatcgac
                                                                        930
 gcgattacag aatttacatt agtacgcccg
 <210> 4770
 <211> 792
 <212> DNA
 <213> Enterobacter cloacae
 <400> 4770
 cccccgttga gagctccttt gccgctagtg gcaggtgtag aaaatcagcg cttgattgcg
                                                                        60
                                                                        120
 catcetteeg gtagtggeet ttttgeagat gtgetaacte teaaaacgea etegteegge
 gacgaggtca tttcacgtta taccgtacag aaagattaca atccgcaaga aggaggcgga
                                                                        180
                                                                        240
 aattatttcc tgattaaagc ggcctgtgcc gctcgcgact accctgcgct ggcgaatgat
                                                                        300
 atttacttta ctgtagtgaa ctgggattta ctgcatcgta gtaacttggt tctggctgaa
                                                                        360
 ctgcttaaga ccgtgaacct cagtgctaaa aacagcagtg gatttaaagt accggaatcc
 tgqcaggtga atccccttac agaaacgcgc ctggtggtcg agcactcgtt tgatggcatt
                                                                        420
                                                                        480
 aactacqqtq tcattaatct ttqctttttt tcqcaqqaqa tqttqtttac cqcqcaqqat
                                                                        540
 gtttttagcg tttcgattaa acggtttcac gatcgagaac ctgccgttac gcttaagact
 gaagcacttg ctactattcc aaatgagttt aatccatccc tcggaaaaac actgtggaca
                                                                        600
 tgccgggggg aaatgttcag cgcagaggaa gaaatgcgcg ctgtttacca gtgctatatt
                                                                        660
 tttagcgtgg gcaaagtctg gtgctatgca gaactgattg gcagacaccg taactatcat
                                                                        720
 gattaccact tcgaggcgaa taaacgctgc ctcgaaatca tcctgtcaac attccatata
                                                                        780
                                                                        792
 gaaaatgtct aa
 <210> 4771
 <211> 399
 <212> DNA
 <213> Enterobacter cloacae
 <400> 4771
                                                                        60
 ttaactgaat ctactgcaat gaatgaaatg acaatgtttg gttacgttga tagagcatta
 actttagcac agaaaagata tgcagacgtc aagaatcgtg atccccaatc cccgcttttg
                                                                        120
                                                                        180
 caaatgtacg actctattgt acaacaatta ttatttctac gggatttaat cgaaggcaag
 gaaaaggata gagcgaaatt atgggatatg acgttcggta tgtatgcagg gaaggagttt
                                                                        240
```

atccgccgag	ggttaaaggt	ttttgaaagg taggctgccg attccctgat	catgaggtcg			300 360 399
<211> 252 <212> DNA	robacter clo	pacae				
<400> 4772						
ttctctgagg aagaatgatg ggtttcatgt	cctgtaacaa ctgacaccgc agataaagaa	cactcatggc cagcaaaagt ttattccata gaaaacgaat	tataaacgac tatctgaaaa	ctgaaattag aatggcaatc	tcaggttata caaatattac	60 120 180 240 252
<210> 4773 <211> 405 <212> DNA <213> Enter	robacter clo	pacae				
<400> 4773						
aatacaacaa gatctggata cctgctcaat taccaggtaa ggagtgataa	cgaccaccta gtcggtatat atggtgaggg aaggaactcg tgacggaaac	tctaaatgga ccgctcagaa gcctcaggtg tgtactggcc tgttgtttta agtcctgtgg aaatattccg	gaaatcgtgc tatgcaatgg tcctaccgcc attctggtac ccgtcactat	cgttcagacg tgcggaactg aaccggcagt cagtagagtg cacttgtaga	gcccaaaggg ggcaagtaac aaaccttgcc cgagccacct	60 120 180 240 300 360 405
<210> 4774 <211> 306 <212> DNA <213> Enter	robacter clo	pacae				
<400> 4774						
tcacatacaa gtgctttta gtacagcgca gctaacaaca	tcgccaacaa acgggaaagc gttctgttgc	tatgaataca actgctcgca cgcagaggtt ggacagcgac gaatggttgg	agacgtaagc gatgctgtag gcggtagata	ccaatacggt tggttcaggg gttattttga	taaaatcctg ttcaaagaga aatgaatcct	60 120 180 240 300 306
<210> 4775 <211> 309 <212> DNA <213> Enter	robacter clo	bacae				
-400- 1777						
ttccagttct aaacgggttc cagagtaccg	ctagccttaa tgcaacttga tagagcttgc	caaacttaca gagcagactg gggttcggga ctacgtagtt cctgcgtagt	<pre>aatagccctg ctgagtccat tttctgctct</pre>	atgtgccct ttccgccagt atgacgtata	ggttttgctt ggctttcctc taccatgtgg	60 120 180 240 300 309
<210> 4776 <211> 222 <212> DNA <213> Enter	robacter clo	pacae		·		

atcaacattc gcaggcgcgt gcaacacgtc <210> 4777 <211> 561 <212> DNA	tetgeggegt egetggaegt tatttgaaet tteaeegeeg	gttacccgag tgtacagcct gggccggcag	ccgctggttc gccagccaga	cattaacgga gcgaaaccag	actgacgggc	60 120 180 222
<213> Enter	robacter clo	oacae				
cgcttgctaa agaaagtttc ctcatgaact atgtcgcggc gataacccac gaagggagc gcaatgttta ggtgctctcg	ttttgaatcc aaaggttggc tccggtccat gcgtcctgat atgctggagg ttcagcggtt gagtaatcga aggagatcaa ataccgggct agtttgtgtg	gttacgcaag gcagtggcag ttgccgactc aatcatgaat ggtcatgctt tcatcaggta ggcccttgaa tgcagttcgt	gagctgtctg tctcaaacgc ttttccctca cactctgact cgcattttaa ctgtacgaat cgagcaggct	gaagtgggtc agttaatgga cccgggcaat tcgtacgtaa tgggcggatc tctgttgctg tcctgaaagt	agggggatca gttgttaagc gaggtgtgat atattcattc tatggatgga ctcaaagcag gagaaaaatt	60 120 180 240 300 360 420 480 540 561
<210> 4778						
<211> 210 <212> DNA	cobacter clo	pacae				
<400> 4778						
gcaagcataa gtggagccta	gcttgtttc taaataaatt ctaatttacc ccgacgtctt	caactatcat agccaaacgc	tcatattgtg	aatggatacg	gagtaagagc	60 120 180 210
<210> 4779 <211> 201 <212> DNA <213> Enter	cobacter clo	oacae				
4400> 4770						
cgtattaaac caaggcggat	ctggctcatc cctccctgtc tgatccggcc cttttactta	actggctaac tgaaaggttc	gacgaaaact	tattttatca	ttcaaaaaat	60 120 180 201
<210> 4780 <211> 354 <212> DNA <213> Enter	robacter clo	oacae				
gaacacgttg ataaagattc catctcaaaa gaagatacct	ggaataaaat aggaaaaggt tcatagccaa ctttcgtaga gcacaggcga ttatgtgcca	gcaaccgacc tgatggcaat acccttaatc tggctttgtt	aagtatgata gcagatgctc aaccgtgttc gacgatgaat	gtgaagcaac tgagtgataa cttgctctgg ctctgttgat	ttttgcagta gcaaaaattc tatctatggt gagctatcaa	60 120 180 240 300 354
<212> DNA						

<213> Enterobacter cloacae

(ZIS) Bireo.		Ju 04 0				
gcccgcgttg gctgaaatcc gtcatcccgc ggccgaaata gcagaattgg	ccgcgctggg atcactgcag tttgcgccat cctgggtaca	atgcatcgtc caaaggcacc tcaccacaga gaaatacggt atggcattcc	tacaaaacca tgtaaaaaca ggcttagccg cagggtggcc acggaagcag atccaatcaa aataaatga	tcggacatga ttcgtgcaga acggcgttgc agctgctggc	agatactccg taatttccat aattcacgct acaggtaaac	60 120 180 240 300 360 399
<210> 4782 <211> 282 <212> DNA <213> Enter	robacter clo	pacae				
tggtttctaa catactggcc cagccagatg	cgggagatat ctgttttagt agttcgttac	catgcacatt ctatctagag ttcgctggct	gataatacac tcagacgatg tgtggtcgga gctcttgatg agtgatttat	tgatacccgg ttagcggcgg aagcgcgaca	cgcagcgggg atttgtttta	60 120 180 240 282
<210> 4783 <211> 267 <212> DNA <213> Enter	robacter clo	oacae				
atgctcggat gatgtcaatg cttatatttt	ggtactgtaa ctataaaatg	gaaaagatct gggggatgcc gattagacag	ctctctgaga gcaaaccgca ccccctttac tgtaataaga	ctcgggttcg tttactgttt	tagagggggt taacagtagc	60 120 180 240 267
<210> 4784 <211> 288 <212> DNA <213> Enter	robacter clo	pacae				
aaaaatattc caagagatct gctgacagga	gtacagtcaa gtcggttata gtaaattatg	aaaggtgttt cgtagaccgg ggaaattcaa	ccatcccacg tcagagatgt aaaatggagc agccgcgaga gcgggtttgg	tagtcaggtt tttgttttac attgtagcta	cgaaaacttc tacggatagt	60 120 180 240 288
<210> 4785 <211> 249 <212> DNA <213> Enter	robacter clo	oacae				
attaccgggc catccgcttg	aggagatttt cagatttaac	atcaggacgt ccccttaatc	accagtgcac ggtgtgactg gccaaactgg gctcccttaa	agcagcagct cgttcagtcc	ggggcactgt tgatagtgtc	60 120 180 240 249
<210> 4786						

<210> 4786 <211> 576

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<212> DNA
<213> Enterobacter cloacae
<400> 4786
cgggagtatt accgttatgg tgatgctcgt cgttttacat cggagagcat tttaatgaat
                                                                      60
tttcaaacta acgaagtttt taataaattt gctgctgtta taaaatcgcg catcgtcaat
                                                                      120
gaaccatcgt catgctattt gctgcatgat aatgagatag atataacgat tttgaaacat
                                                                      180
ggcatattag aaaatgacag aaacctgttg tacgtagttc gtccttcagg aacgtgtttg
                                                                      240
ttgcgttgtg acaaatattt ctatccgaaa tattatcttc gttgccgtgg agattataag
                                                                      300
tcattcatat atgtccatct tgatctacat agtggtgaag ctaaagaaat cacatgggag
                                                                      360
caagcagacg atatgctgtc tagtccagga aaacccccat taaaaggaaa tcttggacga
                                                                      420
tttgagtata taaaagttgt ggttgaggac cttcgtattc gaggttacgc tgattatctt
                                                                      480
cctgcgtata atcttgatga ccttcgccgt tttgccttac aggacgaccg cccatccctt
                                                                      540
gtcagataca ttgacaatgt aatggcaacg gtctga
                                                                      576
<210> 4787
<211> 924
<212> DNA
<213> Enterobacter cloacae
<400> 4787
tggccaacct gcatcaggga ggcctcaata acgactggag gctgtatgaa gttagctacg
                                                                      60
                                                                      120
gacctggtaa aagctatttt gattagaaat ggtgttgaac cagtaaatat aagcgaatca
tctaaattat ctttgaaaca accactgaca gaacttaaat tcagtttata tttgcgaact
                                                                      180
gagcatttat ctcacttcct acceggttat gtttattcta taaaagaatg tccactgtca
                                                                      240
                                                                      300
tatgacatcg ggatcgaaat tcagaaaatc ttcgaaagtt tacatttgtt aaacgaagaa
                                                                      360
tttgaatccc tcggttttgt ttctgtatgg atagaaatgc atcaaagcat ttttgaacaa
                                                                      420
agtcggttta agaaaagtaa ctttactttt cgggaggaag aggtcgagct tgctaaaggg
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<211> 240 <212> DNA	robacter clo	pacae				
gcactgcagc aatgaagaag	caggatggta ttcggggtcg tgatcgcagc ggtggcttgc	ggctggtgcg cctgctggat	cgggatattg ctggagaagc	cgtgtcgggc gaaaaaaggt	cggtatgagg cgaccagtcc	60 120 180 240
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gaatattcga ttggggttta	ctttcttcgc cctgcttcaa cccttaacgt aaccctattt	cgagttctat ctctctcaga	gttgagcagc gatggtgcaa	tacagctgtt ccatatttag	taacgagcgg ggtttacccc	60 120 180 240 243
<210> 4813 <211> 663 <212> DNA						

<213> Enterobacter cloacae

<400> 4813						
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gaaattatgc	aggaaacggt	attagcgagt ctgtaatatt	attgtctttc	tccattttcg	tctggcgaaa	240 300
attcgtgagc	tggacgcgct	ttttgatctc gttaattcgc	atttctcatg	ggagttgggt	gtggttcgcg	360 420
gtactggtct	tctcccgcct	atccccctgg ctttggaatg	caggtgctgt	ggcacgccat	cctggagcat	480 540
		aaacgccgtg tggttattac				600 660 663
<210> 4814 <211> 249 <212> DNA						
<213> Enter	robacter clo	pacae				
- -	=	ctatcaacaa			=	60
tctgcgcagc	agcagtttgg	tggcgataaa tgaattcgtt	gactccccta	aacaccaggt	gaaaggtgca	120 180 240
cagggggga	acyccycccc	cacctacgag	gergaeaggr	ccycyccay	gegegeggg	249
<210> 4815 <211> 249						
<212> DNA <213> Enter	robacter clo	oacae				
<400> 4815						60
tcaacgccgc	cggagctggt	aaggttcgaa tggaaaaatt actgggtagc	gaccagctcg	aacagaaaag	agagaaatct	60 120 180
		agctgatgat				240
<210> 4816 <211> 195						
<212> DNA <213> Enter	cobacter clo	pacae				
<400> 4816				,		60
gagactgcca	gtgataaact	cttatccttt ggaggaaggt ctacaatggc	ggggatgacg	tcaagtcatc	atggccctta	60 120 180
aagcggacct		ctacaatggc	gcacacaaag	agaagegaee	cegegagage	195
<210> 4817 <211> 363						
<212> DNA <213> Enter	robacter clo	oacae	•			
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tacgtacacg	gtttcaggtt	ctttttcact cggtcagtca	cccctcgccg	gggttctttt	cgcctttccc	120 180
		cgtgtcccgc				240

ttcgtgtacg ggactatcac cctgta aagctgattc agactccggg ctgctc tga				300 360 363
<210> 4818 <211> 195 <212> DNA <213> Enterobacter cloacae				
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<210> 4819 <211> 432 <212> DNA <213> Enterobacter cloacae				
<220> <221>unsure <222>(417)				
<400> 4819 tgccgtactg gaaaaagcgc tcaaact atcatggaac tgctggtcaa cgcaggg aaggcgcgaa aaggcgacaa agacgaa gagaaacaag ttcctgacaa acgatcc gaaaacagcc ggaaaaccag atcaccc aaaaacagga tcaggcgggc gacaaga gaaaatgcag atataaaaaa acccgcc aaaaagatcct aa	egeg gegegeageg agee gagaaagega caga egeageaaat gate atteteagga aaag ageaaaateg	cggctcagac aggaagagtc cggtcaagac ccaccagaag acgcatcccg	ggcgaagcag gcgagaaaaa gaagggacag aacgcgaagg caggaaaact	60 120 180 240 300 360 420 432
<210> 4820 <211> 225 <212> DNA <213> Enterobacter cloacae				
<400> 4820 gagagtgacg tggaaaaaga gcagctgaaaatataagg gtcgcaggct gattgataaggatgagt tccccgccgg gcgtctgacagaggggc tgacccagct ggttcag	tta ccggaagagt gggc gagctgatgg	atctgctgtg ctatcacgtt	gtttgcccgt	60 120 180 225
<210> 4821 <211> 432 <212> DNA <213> Enterobacter cloacae				
<400> 4821 cacatccca ttgcagccag accgctt cctctatttt atggcgaaaa ggatctc gcgatggaaa tcggcagcgt agataac acccgtctga ccaaacagat aacgaaa gatgccacag cagaagaaaa gcaaaaa ttgcaggcac agctggcgca attgcag gaaaaaggtg aggcagtcgc ggaaggc atctacgtct ga	caat atgacaactc cagc tccggcggaa agtc actcagcagc gcag caagaattac gcgt cagcaggccg	ttaagcccgt acgacattgc tcaaagaagt tcgaatctca aagaggcgat	ttctctgtcg ttctcaaatc ggccatgggt gctggctatg gccaaagcag	60 120 180 240 300 360 420 432

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<211> 210
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(106)
<400> 4822
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ccacaggcag cgcgtcaggg gggggaatat ttggctcaca cccttntcca caccagcgat
                                                                    120
                                                                    180
ttttatetge ateegeaega gaaaaaageg eaggtggeaa aatteateaa eegatttget
                                                                    210
tttcaccgac gcctttggcg cgcgcggtga
<210> 4823
<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 4823
                                                                    60
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atactcacat tactggccgt tttaaatacg gacgcactgt caagtgaaca cgtttcggcc
                                                                    120
attgctgcgt ttgagaaaat aagcagacaa aaaaatgtag caacgctaat ccatcctgaa
                                                                    180
attttcatct cgccctctta a
                                                                    201
<210> 4824
<211> 315
<212> DNA
<213> Enterobacter cloacae
<400> 4824
                                                                    60
cgtcccgtta tgtcgaaaat accaggcacc gatattcagc ccgccgttca gcgccgcgta
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gaggttgtta tattccccgc tgctattttc gctgcgataa ccattcacgt tataccccag
catcagegeg gggatecegg cateceagag cacegggttt acgetgeege gtgegaeatg
                                                                    180
ctgcaacatg gcctggggga tactgacatc aaggcgctgt ctgcccccgt taaatttcag
                                                                    240
                                                                    300
ccggctttct ggcaggacgg cctggagatc gcaccactgc ccggcattag tggcgcacag
                                                                    315
cctqcttttt tttaa
<210> 4825
<211> 438
<212> DNA
<213> Enterobacter cloacae
<400> 4825
cagcgttacg attectetet eggeaaggta tatteagacg gaagacageg tgaeggeggg
                                                                    60
                                                                    120
catggcgaac ggcaagctag tttatacaat aagttattat taaagagtga tattttgata
                                                                    180
gcggtagcat atgtgatgag atttttattc agtttctgct tggggctcct cgtattatta
                                                                    240
aatacgacag tatgttttgc aacctgctct gcaacctatc tttataaccc ggtcccaaag
                                                                    300
gtgccccttt taaccaatag tatttcactg ggaaaggatg cacctgttgg aaccgtgctg
                                                                    360
420
gttacgtttt tgtacattat tgccgatcct gtaggtcttc attacgaagt tgccaagatc
                                                                    438
gccgcatata tcccccca
<210> 4826
<211> 249
<212> DNA
<213> Enterobacter cloacae
<400> 4826
atggcattag gtcgaatgac acacagttca gctttgttaa gagcgagaat ggtccaagac
                                                                    60
                                                                    120
atctatgaca ttgggcatca gaaggactat gtgcttgata tgagatcaaa aaaatatcag
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			aatgcctttg tcattcgcaa			180 240 249
<210> 4827 <211> 450 <212> DNA <213> Enter	cobacter clo	oacae				
cgcgtttacg cttagtgaaa ttgtttgttc gcactgggag ctggcagccg ctggcactgg	tgaactcaaa agaaatctaa tgctgaccgt atatttggtc cgatgttgat	tctacacgga cacggctgca gcttttttgc atacatgagt ctcaagcgta catgatgctg	aaggatcgga gtaattatgg ctttttaaaa ggtctggcat gaaagtatga tatttctctg gtaatggcca	aactttcttt caaaaagcgc atgcgggttc ctggagctcc tccttaagcc	aaatattggc aaaagtgatt agatgatggg gggcaaaatt taacccgggc	60 120 180 240 300 360 420 450
<210> 4828 <211> 363 <212> DNA <213> Enter	robacter clo	pacae				
<400> 4828						
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<210> 4829 <211> 357 <212> DNA <213> Enter	cobacter clo	pacae				
<220> <221>unsure <222>(202)	9			•		
cctcagcata gatgccaaaa ttcgggtttt tcaggaataa	cctatagatt aattagggct ctgttgtagc gaggattgct	ccctttcagg tgcattcatt ancggttgtg aaaacacaaa	ggatttttaa atcaacatgc ctggttgcat tattggattg ctctggtggc ccatttatca	ctctactgat ttgggaatat cgtataacaa tcggtttttt	tttgttttgg cttcgaatgc agcagctgag gccaagtaaa	60 120 180 240 300 357
<210> 4830 <211> 537 <212> DNA <213> Enter	robacter clo	oacae				
aaacaggagg gttgaaattg caagaacctg	aagatatgaa aaaagggatt tcaaatcgat	caacagcaaa taatccccga gattgtgtca	ggcaaatttg catacagtca gaggcggtaa atcaaacaag ggtaaatatt	ttgaagtgga tcggagattt cctttaagga	tactaatcta gtgttacgaa aggaaggcag	60 120 180 240 300

```
360
cgttttcatg gcttaaaatt agcaatttct gaaggtgcta atattccaaa attatctgtt
atcttaatcg attataaaaa cgaaattgaa gaataccttg agaacctcga tggtaacaga
                                                                      420
agcaatgggc taaatccggt tgggcaagct catgcattag ctcatgctgt tagtctcggg
                                                                      480
tattcggttg aagaactagg gaaggtgcga ataagtgggg aaattcttct cggctga
                                                                      537
<210> 4831
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 4831
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tgctttttac gcatttacct aaatgccata agcattccag taaatgcctt ccttattcat
                                                                      120
tcaaatgctt ttcgcatgca tccgaatgcc ggatcctttc ataaagttac tataatcaat
                                                                      180
gagttaaaga tgccgtga
                                                                      198
<210> 4832
<211> 216
<212> DNA
<213> Enterobacter cloacae
<400> 4832
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agagaaatcg caggggctaa aaaactcaag atattaaaat tcaaagagtt attaatgagt
                                                                      120
                                                                      180
aattatctga aaatccggtt ttgtaccttt tcgttgcttg ttagtttaaa ggaacaaggt
                                                                      216
aaagtgtgtg ctacggcgag gatgccaaca gaataa
<210> 4833
<211> 942
<212> DNA
<213> Enterobacter cloacae
<400> 4833
ataagaggga gttatatggt ttacgaaaat gaattgtggc acagttttct tctgcgttca
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cagataatgt ataacttatc caattgcagg aacataatat caaagcatgg cgcactaagg
                                                                      120
tacgatgcct ttcctcgttt cgaactgatt gatatgtaca aattgcatag cttgcaggat
                                                                      180
atatatgaca ttcttgccac tagaaatggt tatatactaa cttccaatat agtgtcgtta
                                                                      240
tcttctggtg tttacgggta ttttaacgct attgaagatg cctgtcggaa aaattttcac
                                                                      300
                                                                      360
ataactaatt catatccatt ggtaaacatc tcaaacattc gttactgtca caaatgtatt
                                                                      420
gttgaagata tacactctaa aggcattggt tatctgcgtc atagatggtt gtttgaatct
aaatgtgcag ttcatagtac cagtttatat gaggtttgtt ttgataacta tttgaatgca
                                                                      480
                                                                      540
gtgaaaggac ttagtgactt aattataagt ggaataaatc ctcatggtta ttgttccctt
                                                                      600
gtggttgacg tttcaaaccc tttcaaaaat ccagtgtata tattaccatg tgcacgtaat
                                                                      660
aaaattttaa aatggatttc ggacaataaa aatatgctga tttactttct ctttgatctc
ttcaaatgta agtcgcattc aagtttatct aaggttatcg aagtcaagat aatgcatgat
                                                                      720
                                                                      780
agatatattt ctgcggtgtt caagatgtta agtgaagtta atttttgtaa tttcaactca
tttatttctg atatttttga ggacgtaagc tatgcctcta tcggacttga tgattattct
                                                                      840
                                                                      900
gttaatgtgc attttctcag gctaagggct gcagattgta aattttgcca gttgaatggt
                                                                      942
aaatattttt gctcacttta caatgtaaaa cttcttcgct aa
<210> 4834
<211> 1671
<212> DNA
<213> Enterobacter cloacae
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gaaatagcct gtgaatttga tgacctgccc gattttatca tgatcgacga cagggtgcag
                                                                      120
                                                                      180
accacgctcg cctcagaaca tctgctgaat gaggacggca attttgaaat cgtcaaaacg
tttaaagcaa cgacctcagg aaaaccggag cagacctgca tccgctgcat ccacccggat
                                                                      240
                                                                      300
gaggagcccc tgagaaattt actgggcatg aaaatttctg agctcaaggc ggtgggaaaa
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360
gaagttgaaa aaaatgtggc ggataaacgc actgcatcgt tatggcgtca ggccatcagg
gaagccgcag ccccctatac ctgttcggaa attatgctgg atgtcgataa agagttcgga
                                                                      420
accgacacaa aatcattatg gggtaagatc ctcgatttgc tgcccacgta tgcgattttc
                                                                      480
aaagccgaca gggaaagcag cgacggggat tccgaagcta aaaacccctt acagcaggcc
                                                                      540
gtaaaagacg ctcaggctgc gctgcaggac aaaattacag cgctggaaaa tgagattcag
                                                                      600
                                                                      660
gacagegtee tggatgtege acagagaacg etggataaat taegtgaaat ggeeceegaa
                                                                      720
ctcgccagtg aactgactcc acgatttaag gagaaaccca agtggacctt caatttcacc
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                                                                      780
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ctgttgaatt tttttcgggc tgaggctgaa aagaatgtcg cggggacgcc cagaaatgtg
atttatgcca tagaggagcc tgaaacgtca cagcatccga actatcagat gatgctgatg
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aaagcgttac tggcactggc aggccagccg caccgtcaga ttatcgtcac cacccatgtc
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ggtgaacccg tagtaaaaat gccggatgac gcagtgctga aggaagccac tgaaagcctg
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                                                                      1140
                                                                      1200
teggatgtta ettteetgag geatgeggee agtteattaa aacagteagg tgegetgeea
                                                                      1260
gcctctctgg aggacgtgaa aatagtgcca gtcctcatag gagggtgtgg tagcgtcaaa
                                                                      1320
cactgggtta cattgaatct ggccaaagat ctggggcttc cctggtgcgt atttctggac
tccgatattg ggggagaccc tgcacaggtt ctgtccatcc agaagcgtaa aaaagaagta
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gaggaggccg gtaaggtatt tttcgctacg cgcaaacgtg agatagaaaa ctatctgtgc
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ccggatetta tcgaggaaat tactggtgta gccgtcacgt ttacggacac ctgtgacget
                                                                      1500
                                                                      1560
aaaaaaataa tcggccgggc tgtgggaatg aaacccgata atgtactaga taaattctgg
                                                                      1620
cctcagatga catcagaaag aatcatctca agatcaacct atcatgacgg aacgcaggag
agaagcgagc tggttgagat cctgagcgac attgtatcca tgacgagata a
                                                                      1671
<210> 4835
<211> 549
<212> DNA
<213> Enterobacter cloacae
<400> 4835
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                                                                      120
gttaaatttg agcgtgatat tgcgttcttc ggcccaggct tcgaaaaact cgaagacttt
                                                                      180
catgacttcc gctctgaggt caaacatgac cctgtcaggt atcagctgat tattatctgc
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ctgtgccagg aacagcatat cgctgaccat tttggtcatc cggttatact cttcaagact
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ggaatagagg acatecteaa gtteeetetg tgttegatee tgaeteagtg egatateagt
ctgcgtcacc agattggtga tgggcgttct gatctcatgc gcgatatcgg cagagaaatt
                                                                      360
ggcctggcgg gtaaagacat cctcaatctt tccaatcata tgattgaacg agataaccag
                                                                      420
ttgctccagc tcaatgggaa cgcgtgtccg ttccagtcgc gcatcaagat tctcggaggt
                                                                      480
gatgtettaa atggeatagt tgaeattaee aaggggeagg tgeeeettga eggaeagega
                                                                      540
                                                                      549
ttcgaatga
<210> 4836
<211> 183
<212> DNA
<213> Enterobacter cloacae
<400> 4836
acgcagaaga aaactgtgcc acaattcatt ttcgtaaacc atataactcc ctcttattta
                                                                      60
attagttcca tttttctgag aagtatcatt gtcattggta gtttatctct gtatttcaaa
                                                                      120
agccagccat gccctcccag taaagcatct agacttgtaa gtgacatcga gtactgccc
                                                                      180
                                                                      183
tqa
<210> 4837
<211> 336
<212> DNA
<213> Enterobacter cloacae
<400> 4837
ttcccggcag tgatgttaac tcactatgga gatcgcgaat ggttgcgtcc tgtactggac
                                                                      60
                                                                      120
aaggtaaaca catcaaccgc agtacccggc gcggaggctc agactccggc agcgatttct
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tcaccaccaa attctctcct tcacctcaac aacctttttc taccgacgtg cataacggtg

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cgcgtagccg ttgtatatcg tcatccggta atgcaagcaa tggcttacaa ggaagccaac
                                                                      240
                                                                      300
cctctgatgt tcgtgcgcat aatcgtgccg atgctggcgc gtgtgatgaa taccaacaac
tcaaggtgct atccatggga agacagaaag cagtga
                                                                      336
<210> 4838
<211> 228
<212> DNA
<213> Enterobacter cloacae
<400> 4838
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                                                                      60
aatgcaacat ttattttacc tgaatgcaac ttttcggact gcccctacat ggaaaatcag
                                                                      120
tcttatataq aaatattaca qaaatataac aataagatag tctggaaaaa aaataatgtc
                                                                      180
                                                                      228
cccgcgaact gtcgcgggga cgattatcag gcttctatga gaccctga
<210> 4839
<211> 786
<212> DNA
<213> Enterobacter cloacae
<400> 4839
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                                                                      60
attatgcaaa ggaaactatc tattaaacct cagctattaa taaaaagaat tgaactattc
                                                                      120
gcagggaaca tagataagaa taaatttagc atttctccat tcaaaggttc tgacctaaaa
                                                                      180
atttttgagc catccataat aaacacaggt tctggctcag ctctcaatat caatataaaa
                                                                      240
                                                                      300
tgggattacc catacgaact taaaatgagg cagcttaatg aatgttataa atccatcaac
aaagaagcta aacttgaaca tgaaataaat gataaattag gtgtaagatg cttagagata
                                                                      360
aacactggcg aaatagtatt atatcctttg actaatacag atctgattga ttttatggca
                                                                      420
ccgattaatg ttgaaaaaaa agaatacaaa accagagccc ccttctctat tttcaatatt
                                                                      480
atgattaatg atgctatgac attattacac attgaaaata aattaacaaa agccgttgaa
                                                                      540
                                                                      600
ggtccatcat tgaacatatc ctatactgat gtagaaggta aaaaatactc cttgcaatat
                                                                      660
aaaagttatt ttatagttaa agaaattacc gcattattat atacaaactc catatctgga
                                                                      720
atattgttct tcgaagggac aaaaatgccc ctcgctaaca gagtcaatca tttatataaa
                                                                      780
aaacaaaaag gtattttcat taacttcgta agaaataaac tccaaaacat taaattgcgc
                                                                      786
agttaa
<210> 4840
<211> 666
<212> DNA
<213> Enterobacter cloacae
<400> 4840
                                                                      60
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atcgatggca agactgggat tcgcctaagt gatctttctc actattcaag attagaaaat
                                                                      120
                                                                      180
gaaaaaatga gggatgatga gatgtctaaa gtctttatag ccaaaagaga agaaataata
                                                                      240
atggaggtta atggcattag gataaacact tctgatttaa ccaacgatcc aataattaga
                                                                      300
attacaccta ggcattgtta ctgtttatgt ttaagtagca agggggatga tgattatctt
tattcaaact ttcaagcgga tacttgtatt gcttttgatg ttgataaatt agaagaacgg
                                                                      360
ctttctattg catctcaaaa atttcagggt tcgtttgtgg ttggggatga tatcatttac
                                                                      420
tacaatcaaa caagettgea eggtttgggt caaaegecag aaaaaettgt ettetataag
                                                                      480
cccgatttct tttcacatga acatgaatat agaattgcat ggttctaccc tcttgataaa
                                                                      540
gatggtttcc gtgcgggtga taaaaatatt ccttttacat ttaaaaatga atcgtcacat
                                                                      600
ctttttttct ttcataaaga gcgatcattt attaccgatt gcataataaa tgtattcagg
                                                                      660
                                                                      666
aaatag
<210> 4841
<211> 318
<212> DNA
<213> Enterobacter cloacae
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<221>unsure <222>(278) <400> 4841 cgagtggaaa gaccgatgat ccgctgcacg tttcatctca acaatagcca gctttcaacg 60 ctgagctgcc ccggtgttgg gttctttccc gcctactcag gaaacgccgg tgagaaccgc 120 aacaatccgg acaagatagc ggtagcagga ataggaccac tgccacccgg caagtattat 180 240 attgtgatgc gtcccggaag tagtgctgct catttcacca aaagctttac atcatcaatt 300 ttatccggct caaatcattt caagtcgttc ggatcgtntt tcaccacgag gcctagaacg 318 accataagtc ccccatcc <210> 4842 <211> 240 <212> DNA <213> Enterobacter cloacae <400> 4842 gagagcactt cattgattca gaactactat ccagatattg cagatgaaat caggaggata 60 120 gcagataata ttccccggcg ttctcgggca gcattacgtg aaaagttaaa ggatgcaaat 180 gccaaaaaca aagttttaca ggatgagatc caacaacttc agcttcgaat atcaaaacag gcaaccatca atgaaatgct gaattacaat ctaaaaaata aaccttctcg aaataaataa 240 <210> 4843 <211> 1188 <212> DNA <213> Enterobacter cloacae <220> <221>unsure <222>(140) <400> 4843 agccaattgg cgcatttttt ggccaagacg ggttgcccaa gggaaatttt cttccctcat ctctgtcatc agggaccaat tattccgaac aaaaatttgg acaagtatga aaaatgcact 120 cattettata aaaagttegn tatacegaae ttggtggeeg aegaaaatga acatgaeatg 180 240 tcgtccggct tggatagagt gaagacttct agtgaggatg agatgtcaac agaacatgtc 300 gaccataaaa ctatagcgcg atttgccgaa gataaggtaa atcttccaaa agtaaaggct 360 gatgaattca gggaacaggc caagcgatta cagaacaaac tggaagggta tctttctgat catccagact tttcattaaa gcgaatgatt ccatcaggta gtctggctaa aggaactgct 420 480 cttcgttcgt taaacgatat cgatgtggct gtgtatatca gtggatctga tgcaccacag 540 gatttacgtg agttacttga ctatcttgct gatagattgc gtaaagcatt tcccaacttt 600 agtectgate aggttaagee ceagacatae teagtaaegg ttteetteeg gggetetgge 660 ttagatgtcg atattgtccc tgtattgtat tcggggttac ctgactggcg aggtcatttg 720 ataagccagg aagatggctc actccttgaa accagcattc ctctgcacct tgatttcatc 780 aaggecegta agegtgetge eeegaageat tttgeteagg ttgttegttt agetaaatat tgggctcgtt tgatgaagca agagcgaccg aattttcgct ttaaatcttt catgattgaa 840 900 ttgattcttg caaaattact tgataatggc gtggattttt cgaattatcc ggaagcttta 960 cagacatttt ttacctatct ggtgagcact gaattacgtg aacgtattgt cttcgaggat 1020 aattatcctg cgtcaaaaat aggcaagttg tcagacttag tgcaaattat cgatcccgtt 1080 aatcctgtta ataatgttgc tcgtttatat acgcagtcta atgtggacgc cattattgac 1140 gctgcaatgg atgccggtga cgctatcgat gctgcattct atgcaccaac caagcaatta 1188 accataacct attggcagaa agttttcggt tcttcattcc aggggtga <210> 4844 <211> 567 <212> DNA <213> Enterobacter cloacae <400> 4844 cctattggca gaaagttttc ggttcttcat tccaggggtg aaatcattat gtcttcttat 60 agttatacgg tagcagagac acaaactttc agcgtaaccc acgctcgtca catggccgct 120

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aaagttgcaa ctgacttgcg gcggatgcag cgtttttatg gttaccccag tgatgccgac
                                                                      180
attgaagcat acgaagaaga attggttgtg attcttaagg ctggatattt gggtgaggtc
                                                                      240
tcttatggtt ttcagaaaaa taataactgg atcgagccga cccttcgata taccgcaggc
                                                                      300
gacttgcttg gttcaggaac agatgacgat cccggaaaaa tccgccaagg aaaagatgta
                                                                      360
tcgggtgcat ccttctacag ttttatgact tatagctcga aatatctgaa tgctactcaa
                                                                      420
teggaaaaag atactgettt gaaagateta eeatteaaac gggtaggtge eeagteteea
                                                                      480
                                                                      540
gggattaatg gctacctcga aaatgataag acttactcgg ccggtggtcg ctccctcact
cgcactagcg taaggaattt tgtatga
                                                                      567
<210> 4845
<211> 597
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
                                                                      120
ggtggaggca gctccagtag caccagacca cgttggtcac gggcgggatc atctgtgatt
tatacccctg cggaagtgcg cactcacacg ccagcccgtg aaaacgttga gaggcgggcc
                                                                      180
                                                                      240
tetgteetg atttacgaga tgtttttetg tgeeatgeet gggaegateg caaggaegea
                                                                      300
gccaaagagc ttcatgacca gcttgagatg aacggggtct cagtctggtt tagcgaaaaa
gatgttttac ttggtgcaac attgctgcgc gaaatcgatg aaggattggc aaaatcacgc
                                                                      360
gtagggattg ttctggtgac ccctgcgcta ctaaaacggc tcgcaggaga agggattgcg
                                                                      420
                                                                      480
gataaagage tateggeeet tetggeaega gacettettg teeetategt teataacaea
acatatgaag atcttcgcga agtcagtccg ttacttggtt cgcgcagcgg tttgagcaca
                                                                      540
                                                                      597
gctgaagatt caatggccaa tattgccagc aaactagcgg agctggtaac aatctag
<210> 4846
<211> 216
<212> DNA
<213> Enterobacter cloacae
<400> 4846
aaatttatta agatttttga tatcgagatt ttgacgcaaa gtaacttttc cggctttctt
                                                                      60
gaaaagcatt tccgacagag ttgtgtttgg cttcatttgt ttctcagcaa cagcaatagg
                                                                      120
gatttggcct acaaccttcc tgccatcttg aagcctggca actatgtgaa acatagggac
                                                                      180
ctgacccaag agatcctttg gaatactctc ttctaa
                                                                      216
<210> 4847
<211> 222
<212> DNA
<213> Enterobacter cloacae
<400> 4847
gaaatagcag ctgctgtatc ggggtttgaa aggccatcaa gcgaaatgta tagcaccccg
                                                                      60
                                                                      120
ccagtgctga acatcccttc gcttgttaca atttctcttg atgatactga gttcgggtta
                                                                      180
ggagataaaa gctcatttaa aggtttttca atgagcatat cgaaaacagg cataatacct
                                                                      222
gcggtcattt tagccatatg ctctgggtcg gacattgagt aa
<210> 4848
<211> 261
<212> DNA
<213> Enterobacter cloacae
<400> 4848
atttctaagg aagttgcatt gatggatgaa aaaattgtcc tgacgcgcca gcaaatttta
                                                                      60
                                                                      120
agetetgeae taaaagteag caaatgtege tegetegtaa aaaggegett teaatetttg
                                                                      180
ggtttaaagt acgcagattc tcaagaaatt ccagatcggc taactatgat agacaaaaac
gcgtttcacc attttgggaa aaatttgtcc gacccaacga tttcgattcc ctattcctcc
                                                                      240
                                                                      261
atgggcaaat accettgtcc g
```

```
<211> 651
<212> DNA
<213> Enterobacter cloacae
<400> 4849
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                                                                    120
qccaqtqtcq ccacqctttt tttqctqttc acttttctqt tgagccacaa cgccaqccag
                                                                    180
                                                                    240
caqcttgaag atcttgcggt tgaagacctg cataaccagt ctaccggcat ggtggatatg
qtagagatgt tcaacaccag cctgagcgaa gaggtcgaga gctatacccg cctgttcacc
                                                                    300
acctttttgc cacagccatt gaacagcgac agcagccaga gccggaccat taacqqcctt
                                                                    360
accepttcctc tgctgaaggg cggtgaaacg gagttgcatg aaaacaatac gctttctgat
                                                                    420
gactteetga geegaaeggg ggeeateteg aegetgtttg teegeagegg taaegatttt
                                                                    480
                                                                    540
atccqcqtqq ccacqtcqct qcqcaaaqaq aatgqcqacc qcqccatcqq aaccqttctt
                                                                    600
gataccacca gcccggcatt tgcggctgtc accaaagggg aggtctatcg cggcctcgcg
                                                                    651
ccqctcttcq qcaatcqtta tcaqcagccg caggaaagag tatgcccaaa g
<210> 4850
<211> 243
<212> DNA
<213> Enterobacter cloacae
<400> 4850
                                                                    60
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cgctatttca aatatcatct tttcaaatca attcttatcg gaatagctca tgacggaagc
                                                                    120
                                                                    180
gcaacggcat caaattttac tggaactcct ggcgcaaaca gggtttatca ccgtcgagaa
                                                                    240
aqtgatcgaa cgtttaggga tctcccccgc taccgcgcga cgggatatca acaagctgga
                                                                    243
tga
<210> 4851
<211> 588
<212> DNA
<213> Enterobacter cloacae
<400> 4851
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                                                                    60
gcgttttgtt tacccggttt gacgcttgcc gaagattgtc agatcacgct ttctcagccc
                                                                    120
atagtagatt ataaacagct caagcgtgac gatattgtta cgtctcagca aagctggcat
                                                                    180
                                                                    240
aaattgccgg aacgggaagt taccgtgaat gtgttttgtc cagacaaaca gaagctggca
gtgcttttac agggtaatgc tggagagaaa ggtcgcttcc gttttggtca gaatggcggt
                                                                    300
                                                                    360
gtcgcagtta aaattgatga tatgaatgtt gatggcaaaa gctataccgt gggtaaaacg
                                                                    420
gttgatcagc ttaactttac gccggaaagc gggtcgcctt cgccattcta tttaagaaat
                                                                    480
aatgaagccg tcgtcgcggt tgaaaataac caggccgtta cgggccagca gatgacattt
                                                                    540
acaqctacqa tattccctgt gcttaatgaa agtgcattca gtaataatgc cgatcaaaca
                                                                    588
acgctggaaa gcgattttag ctggaaaata ttgcaaaata atccatag
<210> 4852
<211> 222
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(81)
<400> 4852
attattaaat cgggtattac gcaaggctac ccgcttaaat tattcattqc qtttattatt
                                                                    60
                                                                    120
qtaaccattc ttctcqaqat naaaaaaaac qaaaaatgca qtctcatatt cttatttttc
                                                                    180
gttaagatta aaattgagtt agcgttattt tacaacgcgt aa
                                                                    222
```

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<210> 4853
<211> 285
<212> DNA
<213> Enterobacter cloacae
<400> 4853
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                                                                       60
                                                                      120
gcccacgage gtaagetgag cccccagacg gccgcgateg aacaggeggg ttccggtaag
ctgttccagt tcgttcagcg ttttggagag tgcaggctga ctgaggttaa gggtttcagc
                                                                      180
                                                                      240
cgctcgcccc agcgttccct gttgagcgac ggccacaaaa gtatgcaaat ggcgcaagcg
                                                                      285
tatgcgctga ctgaacagac cattttttc cataggcgat gttaa
<210> 4854
<211> 204
<212> DNA
<213> Enterobacter cloacae
<400> 4854
agacagaatg cetegetggt ggaagaaget tetgeggeag eggetteget ggaggageag
                                                                       60
ggcgcacgtc tgacggaagc cgttggcgcg tttcgtctca acggggcgcg tgcaggacgg
                                                                      120
gctccagccg ctgcaaacgc agcgaaaccc tcgcctttaa ccccggcggc ggtcgtctca
                                                                      180
ggtgataact gggaaacgtt ctga
                                                                       204
<210> 4855
<211> 267
<212> DNA
<213> Enterobacter cloacae
<400> 4855
tgggcggcat tcgacgccgt ctatgatctc atcgggggtg aaattaaaaa atttttatc
                                                                      60
                                                                      120
cttccccct tgatggatgc cgttgtgacc ccatcttgta agcaaccgca gtgtgtggac
                                                                      180
ctgaaaaaaa tcaaatctgg gcagttgaaa aagcacgttc tgcccttatt acaggtacac
                                                                      240
aaccacatgt tgactgaatt tttagtggag acgtttagat gggtaaaatt attggtatcg
                                                                      267
acctgggtac taccaactct tgtgtag
<210> 4856
<211> 204
<212> DNA
<213> Enterobacter cloacae
<400> 4856
tcagcatcaa aagaagaaga aaaacaatca aagaaaaaag aaggctcatc agacgaaaaa
                                                                      60
                                                                      120
gagaagaaag ccgaaagaga aaaagaaaaa gaaaaagaca cgcagaaaga aaaatcagag
                                                                      180
ggagaggaag cagcagatcc agacaatcca gaaaaagaag aaagagaaga agaaacggca
                                                                      204
aaggacacgg aatcccaagt ttag
<210> 4857
<211> 282
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(253)
<400> 4857
                                                                       60
gtcaaccaac atcatgaact ccaaaaaagc gatccacaaa ccaaagataa aaaagagaga
                                                                      120
gaagaagcag tccctaacct ctacaaagaa accataaagg caaagcagcc gggaaaagaa
gaaaaagcaa acagagaaga tootaaaato caacagacaa toagagaagg atototogaa
                                                                      180
ggaaagagga aagaaaggga caaagacgat cagcgaaaaa tccagatcgg cgataactgt
                                                                      240
                                                                      282
gtgttttcac acnaggccgt ctggcaagga tacctgtgct ga
```

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<210> 4858
<211> 627
<212> DNA
<213> Enterobacter cloacae
<400> 4858
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agecteaget etttgtaeag ttettetgae geegaataea teeaggteaa teaataeeta
                                                                    120
qtqttcqtcc ccaatccaaa aaaattqcct tacaatqatq aaagtttggt acgtqaggga
                                                                    180
                                                                    240
gctaagtatg tttttgagca tacaaaagca actcaggcct catttggata caaccctgaa
                                                                    300
aaacagaaag cagctctggc cacatgtaaa attgatatgg cagtcgtcaa taaatggagt
acctgtgatc tgccctctaa gcctgatgct gatgttttcc ctacagattc aatgtacagc
                                                                    360
                                                                    420
tttcaggcga ttcgccccgc aacaggaacc gaaattcctg agctaaacct tcccgctggt
                                                                    480
540
ttttcgggta tcattttccg ttctgatagc ccaaatacaa caactccagg gggtgttgca
                                                                    600
gcctccatca acggaaaaga ttattacctc tttaccggtg aatacggtaa aaaaggcttc
                                                                    627
ccagaaaaaa cattgaaagc caagtaa
<210> 4859
<211> 450
<212> DNA
<213> Enterobacter cloacae
<400> 4859
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                                                                    60
cqttatttaa ctqaqqataq acccatgcac gcagacgttt gcacacttaa gacacctctg
                                                                    120
gacacgctca gctggctttg cctgcttgag agtgaacttc tgagcatcag ggcatttcag
                                                                    180
cgtctcgacc ttcatacgga gcgggatgaa ccgaatgaac tgacgtatct ggaagatgcc
                                                                    240
                                                                    300
atcattaacg ccggcacagc ctatggctgg tttgtctgtt ttctcaggga cggtgatatt
                                                                    360
ccaccgttgc cagcgactgc ccgagaaatt ctctgcaccc ttgacagtct cggtaaagaa
                                                                    420
attaaccgtc ctttctggga gaaggctgtg gcccgcgggc aggatgaggc ctgtggcgac
                                                                    450
aaagctatcg cagccctaga aatgatgtaa
<210> 4860
<211> 681
<212> DNA
<213> Enterobacter cloacae
<400> 4860
                                                                    60
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tccatgtcgg ttgtttatac cattgagcac gtcagcacgg ttccgttacg tcactggcat
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gctttcgttc tggccgtaac agaaacgttc tggcaactgc cggtgcgtct gcgtccggga
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aatatgtatc tgccgtcgct taatcgcgcg gctgacctgt ttccggttgc tgatgtcatg
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cgcagcaaca atacgctgag tattcaggag ctggattttc agcatcagcc ctgcgatttc
                                                                    360
                                                                    420
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tettetgacg aagggegeag etgggeaata eegttaeget ggattgageg teatattgge
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gaaagaactg acgcgccgta a
<210> 4861
<211> 1008
<212> DNA
<213> Enterobacter cloacae
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                                                                    60
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agaggagtat teactatgte egaatggtgt cataacegee tggaaattae eggtaageee
```

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gtctgtatcg atgtcatgct gcagtggata aacgggactg acgccccgcg tcaccgccac
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                                                                      1008
<210> 4862
<211> 228
<212> DNA
<213> Enterobacter cloacae
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tgtggtatca aatgggtcac ccatagtatg ctcagggcag taaacaacat gatgctggac
                                                                      120
atgccagccg caattgctcg taaatattat caggatcgcc ttatgaggca gataaaaagg
                                                                      180
                                                                      228
aaaaaggaaa aagacaggga aaggctggca cacaaagaaa aaatataa
<210> 4863
<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 4863
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                                                                      60
gegeatttee tgeeetgggg tagtgeaatt gacgacacce cateceegge tegttateee
                                                                      120
ttatcccgtg cggcgcgcaa tggcatgatt aaatattgtg caaatttgat ttcacctggc
                                                                      180
                                                                      201
gtttatcccg atttttgtta a
<210> 4864
<211> 1191
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
catgccttcg ttcacgtgca gcagctcaaa cgttcccgcc ggatgtcccg gagaggtgaa
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cgtttctccc ggatgcatct cccactgcca cagctcaatc atatccgggc ctgcggtgcc
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tgccagcaat ctggcgtaac cgccctgtgc gccctgccac agaaccggga tcgcctcttc
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ccgaataatg tgtatctgcg gctcgctgga gacgttaacg atatctgcca ccgagacgcc
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aagcgcggcg gccagtttac acagaatggc aatgctgggg ttggcagccc ctttttcgat
                                                                      360
ctctaccage atgeetttge tgacgetgge geggegagaa agetegteea gegacagttt
                                                                      420
tttctctttc cgccagctgc ggatacggtt cgcgacggcc aggcttacct gggcaacatc
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ggcacccgca tcggtcatta tattgacttt atcagtcatt ggtcactacc atggtataaa
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acagtcaata caggattatt tatgtctctt gtaacaccgt caatagattc gcgacttgtc
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cccaaacgta cgccctgctc ggcctcggcc ctgcgcaagc gcgtgatgag agacggttcg
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```

ggcgaagtta tetggcgtga cgatettgge atcacetgce geegetggaa etggcgaeag

			1300			
ccgtcgatgc aagctgatgc	cgctggcggc	cagccaggcg attacaggaa ggcgcgtatt	gctggcgatg	agctggtgag	caatctgcaa	1080 1140 1191
<210> 4865 <211> 219 <212> DNA <213> Enter	robacter clo	oacae	•			
<400> 4865						
gtttcaaacg ttcttcacct	tctcctggca ctcatcgcat	cgccatccct aattgccgtt tcttttacag aaccttaacg	cccaacaaca gtaaatcgct	gaacagcact	atctgctgtt	60 120 180 219
<210> 4866 <211> 399 <212> DNA <213> Enter	cobacter clo	pacae				
4400× 4066						
ttggagctgt gtaatcgttc atcgggactg ccgcaaattg	atcgctctca gggtgttcta tgatcatgac gctcagtcaa	ccaaatcatg taaaacctcg ttggggcgga ttttgcggca attcagccac tgtcatttt	tttgatattt aaacttcgcg gctcacctcc aatgaaattg	ttttgttgat aatgttgcgg caaatgtaat cgtttgtaat	cgtcctgggc tgatatcttg gatcgctatc cggtatgttg	60 120 180 240 300 360
		gcgcaaagac				399
<210> 4867 <211> 516 <212> DNA <213> Enter	cobacter clo	pacae				
<400> 4867						
cccgctcacg acagctcgta ctgcaaatgt gcagcgttcg gcgcgctcat gtattaacgc gacctgatga cagcgcgtga	agtacatcgg ggcgcgatat tcgggtctgt atctcgactg gtgatggtgg tcctcggtgg cgagctatcg	tatggagcaa agaagctgaa caagcgcggc cctggaacaa gggaatcgag tggccatgtc caatcagtca ctggccgcgc aacatcagaa	gtgcatggtc gggattaaag aacggtattc ctgcaagagc ggatttgtcg gatgcagtca ggccagtcct	cgaaacataa atgatgaaac agtcaacccg ctacatacgg tcggacagaa atatcaaggc	cccctcatt gccatggtgt ttttgaatcc ctgtgtggct caaagcaggg gttttcacgt	60 120 180 240 300 360 420 480 516
<210> 4868 <211> 383 <212> DNA <213> Enter	cobacter clo	oacae				
<400> 4868						
tccggaagag gacgacgatt ctgccgaacc ttacccagct gggagcgttg tgggatgaaa	tgaacgccgg gcgctgaccc cggggggcgg atggtatcgc	tcatcgctgc tgacgagcag gatcatcgcg gtttatcacc caggcgtgat ctggttctgg gtc	atgctcgaag atattcaacg ggcacagtaa gtcatccaag	cgtttggtcg aaccctacgc cgagtatcac gtaccaaaaa	tccagttcgc gcgaactgat ggttaaatcg agcgcgaaac	60 120 180 240 300 360 383
<210> 4869						

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<212> DNA
<213> Enterobacter cloacae
<400> 4869
actgcaggaa ataatttett qttccattta gggtacacac aaatgcaagt taaaagetta
                                                                      60
qqqttttcaa taacaaatga taatqaaaac atcaaaacaa taqatqtaat qaatqaattt
                                                                      120
attaaatcat cctcacgtca atataatcgc gcagattata cgcgcaggtt ccttatgtcc
                                                                      180
qatqtqaatq atttttatta tqqtttqqtq qtcacattca aaaaccaaaa qaaqaactqc
                                                                      240
atgtcacagt tcattgacgg caaatttaag cttaaagtgg aagaacttca gggtgacgaa
                                                                      300
aaattagtca cattcaattt atttttgctg aacaaaacta atcttcgcgg tttgtatatg
                                                                      360
teteateatg gttettgeag eeteaacaca etttteagee aettteaaac egtaagtaat
                                                                      420
gaatttatca gaaagcaaaa cgcagcagat attgaaaagc tgggagacaa tccaaagcaa
                                                                      480
aaagaagtca ccgcagttaa caaaaaatat aagaagcgtt tttcatttag cataatgaca
                                                                      540
accaaggagg atataaaatc cattcttggg cagttcaaag aaataaaaaa agcatcattt
                                                                      600
aaattcgatt acatagactt taagggggga gcattgactc cactcgaagc atttgccaat
                                                                      660
tcaacaacaa tagacatgag cattaatcca gacgacaaat ataaagttgg ggcactgtca
                                                                      720
caaactatgt cggatacttt tgaagccatg aaaggtggaa tatctaaagc tagagttact
                                                                      780
gcggtagatc acggtggaat agagaagatt atagatttca tggattgccc tgctttcttc
                                                                      840
gaatcttatg attttgatgt aatagctgaa aaaattaatg gcctgactaa cgataattat
                                                                      900
acttccaacc ctgtatttga tatgatcaag gatgagatat tgaacgggac caacaaaaat
                                                                      960
gcctttgtat ga
                                                                      972
<210> 4870
<211> 297
<212> DNA
<213> Enterobacter cloacae
<400> 4870
atgaatgctg atatttatat ttacctcttg aggagatcta aaatggcaga tgccgcattt
                                                                      60
accctaccca aaggcgtata ccaaaagcac aaagagttct ttgagaaact caaaatggat
                                                                      120 .
                                                                      180
atcgaggttc ataccagtga taagaacgtg gatatggtat ccatgagttg ccataaggat
ggagataatc aggatttctg ggatctggtt gaagcaacac gactcactat ttgcaagcaa
                                                                      240
                                                                      297
gaaaacctaa ctgccgatac gggaggggct ggtgttgtct ggatattcca taagtga
<210> 4871
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 4871
gagatcaage tttgccgcct ctactgcage ctgcgctaca ttgacttggg caatacgggc
                                                                      60
atttttatca gaagetgeat egteataate tttaegggaa acageeceat tattgaecag
                                                                      120
tcggctgaca cgttcaaaat tgcgatttgc ctgaaacgcc tgagcctcag cttggcgaag
                                                                      180
                                                                      237
ttgcgcctta gcgctatcaa gagctacctg aaatggtcgc ggatcaattt gaaatag
<210> 4872
<211> 285
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(38)
<400> 4872
togagotgca toaccaatag tgotcattot otoccoanat gotattoggt gatactaaag
                                                                      60
ttaqtqttaa aaqacataqt ttcaqqcaaq acttttqqqq aatttqttaa qcctctqaac
                                                                      120
aagttggcac acaaattatt tccaaaaaat tcgggccaga agttaccctc tttaaagggt
                                                                      180
                                                                      240
aaaccetcce ctgataggaa ggtcaaggge catattattt attttttte aatcataace
aagataattt actttatatt ttattcattc attaaagaat cctaa
                                                                      285
```

```
<210> 4873
<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 4873
                                                                      60
cgccatctac gtggtgaaga cagggatacg cttcgacgga tggcggcaga gttaaacgtg
                                                                      120
ccgttgaact acttttttg tgatgatcag acgacagcag aacttgcatt actcatatcc
cgaatgacag aggaagagcg aagtaaactt atcgaagcac tcaaaacgtc ttcaggtgac
                                                                      180
                                                                      201
aacactgctg acaaaaaatg a
<210> 4874
<211> 189
<212> DNA
<213> Enterobacter cloacae
<400> 4874
                                                                      60
aggetegace caatgegtte gttegeeage eccettaaca ecaacatage gtatgeeaag
                                                                      120
aaaataatct ggcaatcctt tattccgcaa acgtttgctg aggtcagagt tatctatatg
tegtttgace aaggeateet gtetgagatt gaatgeetea acagaaegga atecagtgae
                                                                      180
gatcagtaa
                                                                      189
<210> 4875
<211> 465
<212> DNA
<213> Enterobacter cloacae
<400> 4875
aaacaaagag gaagaaaact aatgcgtggt aaagaattgg atactcagat agagcatgaa
                                                                      60
ctccagttga tgttgattga agggtttgat aaatcgccta tttcagctat aaacttacat
                                                                      120
gccagactta aatcaaaagg aatcattaat ggtggcttaa gtacattaag taacattgaa
                                                                      180
                                                                      240
cgaaggcgtc ttattgcagc ctatgtcgat caacaactat cgcctttgaa tcttcgtccc
                                                                      300
aaagaaaaac agcagtatgt gaaccgtaag actcggcagg ccttgcttgg tcgtaatcag
cagttacagg aagagaataa agagcttcgc gaacaactag cacagaatac cttgtcattg
                                                                      360
attgaaattg tcaaagcggt aaaaatcaat acggttatac cggtagaaag ccttcttgct
                                                                      420
                                                                      465
ccgcatttga tcatggaatt acacaaaagg aaaaaagatc aatga
<210> 4876
<211> 1242
<212> DNA
<213> Enterobacter cloacae
<400> 4876
gtcatcttaa atgactctga ggtgtctgtt aaacccgtgg cgattcagta tatagaggac
                                                                      60
gatattctcg atgccagagc tttctattct atattatttg ggttgaagat cctttgttgt
                                                                      120
gaagagttcc ctggatttac tttggaagac tatgaggatc ttgagtttat acctagacca
                                                                      180
                                                                      240
aatgcgttta actgggagat ttatcaggac attgacaata ttctcgaacc tttggaaaaa
agcatgataa ctaaaggttt atttgagata gcaactggat tggccagagg taaaacttat
                                                                      300
                                                                      360
gatattaaag agttaaagca taccgcagta ctggcgttaa gttatgccac tggagcgcgt
                                                                      420
cccgtgcagt tggcaaagtt atctgttcga gacttgagaa ttgatacgtg cgatacacat
                                                                      480
actgggctaa ttagatatag cattctacta ccttacgtca aacagagacg ccttacgacc
                                                                      540
gagcgtttgc tgcttgctat acctccggaa attggtgcgt taatcaagca ttatgtggac
                                                                      600
aaagctcagt tattatccca tgacagaatg ttcgaaatgg gagtgtctgc ccctgctttt
                                                                      660
gtctcccaat ctataagcca agccattcta aacttcagtc cccctgaata tcaaactgcc
                                                                      720
gttggtcgcg gagaggccgc tcccccgtca atcacatcta ctgatctacg tcacaacgtt
                                                                      780
ggacactcac ttgcaatgca gggcgctagt gcagaggaaa ttgctcacat tcttggccat
                                                                      840
tcatctctqq ttqtaqcaaa qcactacatc cqtqcqaccc caqccttqqc attqatccqc
                                                                      900
gctaaagcac tcggttctaa ccctgtgtgg caaaacatgg tggctatgat gcttactggg
aaacttgtcc cttcaaaaga atgggaaggt cgacgcgtgg ttggtatggt tggtgatcga
                                                                      960
                                                                      1020
ttgcactatg agattggtgg ctgtgcgaga accgatgatg aatgcccctt ctgtgaagtc
cgttgctgct atggttgctt atattaccgc cctttccttg atggccatca ccagggcgta
                                                                      1080
```

			1909			
gctctcaatc	cactaatttc	tgtccacgag		tatcagatag tagaaatcaa ga		1140 1200 1242
<210> 4877 <211> 261 <212> DNA <213> Enter	robacter clo	pacae				
<220> <221>unsure <222>(15)	è					
caagtcagat ttacagggaa gagaaccagc	tacaactaag ggggggttga	tcgaagcgtt ttcggtctct agcctcactt	cataaaacgc attgaagatc	gtctttttga tggcatctgc ttgtgcgagc atctcttaaa	taaagaaatt ctgtcttgaa	60 120 180 240 261
<210> 4878 <211> 453 <212> DNA <213> Enter	cobacter clo	oacae				
ctgtggctaa attatggtgt gttgatttgc ttacgtgtaa ctcctgtata aatggcgtgt	gcctcaactt gcatcgtgtt tcgaaagatt tgtgtgcagg cccttaaact	aaacagacta gttactctca ctatttcaag cttgttatta tgtcacgctt aaggacggga	aaagagaagg gtggcggcgg cgtccgctga gttttattc attaatcttg attttgcctc	aaaagcaaaa gagtgaaaat cgtggatcag gcatggagta aggttgctcc gaatccagac cgggaggggc	ggaactgggc taataagaca cgcggcatgg ccaatttaca aatgaaatta	60 120 180 240 300 360 420 453
<210> 4879 <211> 540 <212> DNA <213> Enter	cobacter clo	Dacae				
<400> 4879						
gagctggcgt aaagtcttca gaaaaattct ggtcttgacc gaggaagagg cctgagttta tttaacactc	tatccttaat gtggtattga ttcgttttgt tatgttgttt ttatgagtaa ttgatatgcc gctgtggaga	ttgttgggtt agttccgtct cgttaatgaa ttcacttccg gttaaccgga agaagtgctc cgggatcttt	ttcaccagtc gaaggaccgt gaaggctacg ttgtgtttgt gaagttatcc gcttaccagg catggttgga	ctgaacgtat cttttaccaa catcattacg acgcaggaag tcccggacgc atggaattct tcagggatga acacggcttc atacttcggc	ctggaccgat gggtgagaca ggctgctatt tgccctgtct tctttcctta aattcttgct agaattgtgg	60 120 180 240 300 360 420 480 540
<210> 4880 <211> 915 <212> DNA <213> Enter	cobacter clo	pacae				
gtctgcgtct gatctaagta	gggtaaaaaa aagcccgaca	atatcacgct tgaccctgac	gatgcgatta gaggaccagg	tcgatgagcg accgcgttgt taagagcaga ctgcgcctga	gctaaccgtt actgctgtgc	60 120 180 240

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300
tttgctttcc tgcctgacgg gcgcaatctg tgttggcaga ccgcaacccc ggtgcttcag
catctcctac tcaataaaaa cgttcctgag tcgctgaggt tgcttacgga ctacatacat
                                                                     360
atgcgtctgg ccaggctgac aatggtacct atgtccggaa ccatcatgaa cgaggctctg
                                                                     420
ctggacagca tcagctgggt taaggtggat ttgacctact tctggcagta cgaacagctc
                                                                     480
ageteteate tgggacecat ceagataace cacaaggeae ttgtacgett egggeacetg
                                                                     540
                                                                     600
gcaaagaatg atgaaaactc cagtgccata agaattctgc gtcagcgtct gtcttcagaa
ttcttacaag aatttcagat ggctgaggat gagctaaagc gcaaacagtc gttgatgggc
                                                                     660
accatggacg tgaaaatgct gtttcatgct cattacccca gccagaagat gctggtggct
                                                                     720
cgatataaaa atggttgggt aatggtggat tgttttctgt ttcaccatac caaacctaag
                                                                     780
                                                                     840
aaaaaagcaa aaaacaaaac tactgtggct aagcctcaac ttaaacagac taaaagagaa
                                                                     900
gggagtgaaa atggaactgg gcattatggt gtgcatcgtg ttgttactct cagtggcggc
ggcgtggatc agtaa
                                                                     915
<210> 4881
<211> 564
<212> DNA
<213> Enterobacter cloacae
<400> 4881
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                                                                     60
ccgcatcaac gcccatactg gcgtcaatat gaggtaaata tgcaacatca ggatgcactc
                                                                     120
caacgtaaat tgccggagcg gatcttccat gccgtctgtt ttgaaggcat tgctacggcg
                                                                     180
                                                                     240
atcctcgccc cgacggccgc gtggctaatg cagcgctcgg tggttgaaat ggggggtctc
accataattc tggcgaccac ggcaatgctc tggaacatta tctataactt tggcttcgac
                                                                     300
                                                                     360
cgtttctggc ccgtccagcg ggtgaagcgc acggcgaaag tgcgcgccct gcatgcgctg
                                                                     420
ggttttgaat gcggttttat tgtgattggc gtaaccatcg ttgccgccgt gctgggcgtg
                                                                     480
acgctgctcc aggcctttac gctggaaatt ggtttcttcc tgttcttcct gccgtacacc
                                                                     540
atgctctaca actgggcgta cgacaccctg cgggagaaaa tcatcaagcg ccaccagcaa
                                                                     564
cgccgcgccc tggcaagcga ataa
<210> 4882
<211> 303
<212> DNA
<213> Enterobacter cloacae
<400> 4882
                                                                     60
ccacgcaaca cetteetgte getgetetgt gacccaateg aggacgegtg taateteete
gteetgatta teaaagetgg eeagegeggg ataetteeeg gaeaggeeae etgeggeagg
                                                                     120
                                                                     180
ctgctggtat ttgagagaag cttctatgtg attattgaga taattaaatg gtacgctgct
                                                                     240
ggcaaaatgg agtatttgcc gggtgttgcg ataattggta tccaaaatag ttgtacggcc
                                                                     300
ctgagccttt atatcgacgc tggacagggt aaaatcgaga gctttctttt tctgataaat
                                                                     303
tga
<210> 4883
<211> 1407
<212> DNA
<213> Enterobacter cloacae
<400> 4883
                                                                     60
attatteetg tgettategg ttgtgegete tetttetetg geetggetge geageetace
                                                                     120
gctgagcgct atatcgtcag cttccctgac ggctcccatg tgaaatacag cggcgcgttt
                                                                     180
gccgatgcgt tcccgaacgg gctcccggtg gggatgggtt ctggtctgtt gttcacgggc
                                                                     240
aagcagggcg atgcgctgac gtttgcgacc gtgaccgatc gcggtcctaa cgcggattcg
                                                                     300
ccaaaaatgg ggaaaaacga tgccaaaatc tttgttaccc cggatttcgc tccgctgctg
                                                                     360
                                                                     420
atgacgatcc gcgtgcaaaa cggtaaagcg gaggccgtgg acgcgcgacc gctgcatgac
                                                                     480
gataaaggcg agatcaacgg cctgccgctg caaagcggtg tgattggttc caccaatgaa
                                                                     540
gtcgcgctaa gcgacacctt aaaagtactg aaaggcgata accgcgggct ggatacggaa
                                                                     600
ggcatcacgc cggacgggaa ggacggctac tggctgtgcg atgagtatgg cccgttcctg
attaacgtcg acagtaaagg gaaaatcctc gcgatccacg gtccgcaggc gacgcaaggg
                                                                     660
                                                                     720
gagaagteea tegegggegg tetgeeaaac gttateaaat ggegteagge aaacegggge
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ttcgaaggc tgacccgcat gatattgacg ggaagagcaa gcgaccgga aaaccgcgat agcgacgcac agggtgagg ataaaaatga gcgagcgat tggccgctt acgctggcg agcaggaaaa gtagcgaacg ataaccacgc tcagggtgaacgacacgctgcacgggtgaaccacgc cggaggcgtt	aaaacaggcg gtacggctac catagtggcg cgcaatgcgt cgacaagccg tacacttgct ggccgaagga tggcgtgaag gaacgcggaa gccgctgaag	ctgtttacgc cctgtcgaca ctggataacc aacctcatct ggcgaatacc gaaaaaacgc ctggcgctga gtagcgatgc ggcaagctga	gtctggtgag gcgcggccta acaccatcct acagggtgga cggagtttga aggtggtcga ttgacagcaa aaaacccggt cgctggatga	cttcgatccg cagcaaaaac gctgattgaa tctgagcaag tgatgagaaa tctgcgtgcg aacgctggcg cgagggcaag taaaccggtg	780 840 900 960 1020 1140 1200 1320 1380 1407
<210> 4884 <211> 219 <212> DNA <213> Enterobacter clo	pacae				
<400> 4884 aacgctgcta ataacaataa aaactgtata tttattgcaa ccatccggcc aacttattta ttcctgtctt caccgcgagg	aaggaaaaag caacaccgcc	aagaaacgca actttcgaac	ccccaggcaa	ggagcgacgc	60 120 180 219
<210> 4885 <211> 216 <212> DNA <213> Enterobacter clo	oacae				
<400> 4885 cctacactat ttttaagcgg atgattttca gcagatgtgc aaaaaggccc acgttacaag acccgcgacc ccctgcgtga	cagagcagaa taacgtgggc	attaaggaaa ctgaatattg	acatgagaaa	gaggaaaaac	60 120 180 216
<210> 4886 <211> 186 <212> DNA <213> Enterobacter clo	pacae				
<400> 4886 ctaaacggaa tcccggaggt atcgttagct tcagattttg aaagttaatg attcttgtca aaatga	tggtgaaata	aagcctgtgt	tgcgttactc	ttctgacgat	60 120 180 186
<210> 4887 <211> 261 <212> DNA <213> Enterobacter clo	oacae				
<220> <221>unsure <222>(65)					
<pre><400> 4887 tacgggcatt tcgattccct gatcngcgcg cccattgtgg tttctggtgg cgaagtgcct ggggcttgcc ggcggggccc tgggggctat taacccgttc</pre>	cgctgttctc cgttggtaac taaatctctg	cacaaatttt acacccttta	cgctgataaa ccttctctga	caagetgetg actectaact	60 120 180 240 261

```
<210> 4888
<211> 321
<212> DNA
<213> Enterobacter cloacae
<400> 4888
                                                                      60
agaggetece actgettgta egtacaeggt tteaggttet tttteaetee eetegeeggg
gttcttttcg cctttccctc acggtactgg ttcactatcg gtcagtcagg agtatttagc
                                                                      120
cttggaggat ggtccccca tattcagaca ggataccacg tgtcccgccc tactcttcga
                                                                      180
qttcacaqca agtgtgtttt cgtgtacggg actatcaccc tgtaccgtcg gactttccag
                                                                      240
                                                                      300
accqttccac taacacaca gctqattcag actccgggct gctccccgtt cgctcgccgc
                                                                      321
tactggggga atctcggttg a
<210> 4889
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 4889
ccaqattttt ctqcaatttc ctccacaagt aaagtagatg tcagtgaatt ttcgacccat
                                                                      60
tggacgatat ctttaaccac actatccgca tacgtttttg tgatcatatg tccccttata
                                                                      120
actaaattct acatttatct aaaaaaaaa tataagttct tcatccatga agaactttct
                                                                      180
agaaatacta tttacgtaac aatctcagac catttgctac aaccagaagg ctag
                                                                      234
<210> 4890
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 4890
qcaqcaqtca ccqctatgtc catgatgttc atcagcctga tcatcctgag cgtggtcatg
                                                                      120
gttacacccc ttatgctgat gatcgccatg actatgttct tcctcaccat gatcatgttc
ttcatcagta tgactatgtt catggctgca tccttcatgt gcatgcccac ctttcacatg
                                                                      180
cccttgctcg cgatgtaa
                                                                      198
<210> 4891
<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 4891
                                                                      60
tatttccgta taaagttaat taatagaaaa agctcagtga tggcgaaaca caagtccaac
                                                                      120
tetttagtgt taegeeatea tggteetaga aaaatageta atettttgae aetetgttte
                                                                      180
cacgagaacg acgttgcacc gcaccttctc gtttacccga atgacttata tcatcagcaa -
                                                                      201
tcgttaatct atgaagaata g
<210> 4892
<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 4892
gctaccaggc actttctcca ctgggatagg ctcccccgtt atcatcgatt catctacaaa
                                                                      60
                                                                      120
acttqttcct tcacttacct caccatcaac aggcactcgc tcacctggtc gaacttcgat
aatgtcatca aggactacat cattaattgg aatatcgaca acaacgccat tacgcaacac
                                                                      180
                                                                      201
atgcgcctct ttggcctgta a
<210> 4893
<211> 189
<212> DNA
```

<213> Enterobacter cloacae

<213> Enterobacter	cloacae				
<400> 4893					
ataaatcatt ctgaatt	tat ototoataaa	attatataat	ccttttttat	ttattctqtq	60
aatagattca cttcccg					120
atgggtgtat tgttttt					180
ggaatctga	aac gaacggaacg	cccyccaaaa	ggacagocaa		189
ggaacetga					
<210> 4894				•	
<211> 2130					
<212> DNA				•	
<213> Enterobacter	cloacae				
<400> 4894					
aatggagata atggaate					60
gaaggcgata ttccggta					120
ataccgcgcc cgatgcc					180
gcctaccaga accagga					240 300
gattttacg cccacga					360
atcccgtttt actgggg					420
cgctaccggg aggaggte caggaagata acgagace					480
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tcgctggaga atgtgca					1200
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tacagccage actecte					1800
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.LIO. Directoracter	220000				
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ctgaaaggct ggggccg	cga aggcgaactc	tggtacacgg	atactgagct	gggtatacat	180
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                                                                      540
ccggggattg cctataccgt ggatgacgga atgggaaata aagtaagcgg gaagctggac
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<212> DNA
<213> Enterobacter cloacae
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ctgaaagggt gggattgtga aggcgaactc tggtacacgg atactaagcg aggcattcac
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                                                                      240
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                                                                      300
aaaacgtggc gctctgtagc gttttcacca aatcataatg aacccaatgg tgatgactac
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gcgccgtatg aggatattat ttctttcacc gtcgtcaacg atcagggttt tttacagacc
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aaacaccage tgtatatgte gtcaaaacca tttgaagace egegeattet geeeggeggg
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ccggggattg cctataccgt ggatgacgga atgggaaata aagtaagcga tacgctggac
                                                                      540
                                                                      600
ccccgtttcc ctggctgggc ctggggaatg gtctatatga ctaagcaggg gcttaagcac
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agcacgcagc aatttaaggc taactggcaa gatttacccg acagcgtacc cgaagtgaag
gagtacaccg gctgggatca tatgcgctgt gatatggatg cggggcgata a
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<210> 4897
<211> 204
<212> DNA
<213> Enterobacter cloacae
<400> 4897
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ctgaaaggct ggggatgtga taggaaactc tggttcccgg atactaagcc aagcattcac
                                                                      180
                                                                      204
tccgaaaccc ctaagttcgt ttaa
<210> 4898
<211> 183
<212> DNA
<213> Enterobacter cloacae
<400> 4898
                                                                      60
aaaagatcga tttttgagcg atgtgtgcgc atccatctgc cagtgttcac atttcaggag
cgacaaaact cttcagccct ggtcatgatt ttccctccct tttatcactc atgcagaaaa
                                                                      120
                                                                      180
cctaaacgcc agccatgcag taagttcgcc acgtatccgg aaggtgcgaa cggcgtgctt
                                                                      183
<210> 4899
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 4899
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aaaagaacgc cgcgtagcgg cctgccgaaa tgcccttgcg cgctttttgt gagcctgaca
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aaaagttgct caaaggttgg ctaccagatt attttgttac tttatcgaag tgatggaata
gtccagccac ggactattcc atcactcaca gttataaaaa ataaggataa tattggcccc
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```

actatatatt taaatatcct atctctttt ttaaccccta tcacatacag ataa

```
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<211> 213
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
actcatattg ccggtcacgg catcgatatc aactggctgg ccctgggcgt acatacgggc
                                                                      180
aaaactgcgt gccagaaaat caaaattctt taa
                                                                      213
<210> 4901
<211> 765
<212> DNA
<213> Enterobacter cloacae
<400> 4901
tggcgctgct gcacgtgtgg ctgggcgcgc acctggatgt acgtatgcag ttatgcgttg
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ggcgcacggc agtgctgcgt ccccttaatc cgcaacagaa cagaaacgac attatcacca
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ttcaccctgg acgctttcag cgcgtccggg aaaacattca gcgaaggaaa aacgatgaag
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atggcgatta ccgctggtaa agcgctggca atcactctgg cgaccctgtt aaccggctgc
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                                                                      360
ggtctgacgc agaaagtgac ggatggcacc gtcgccgtca cgaagtccat tttttacaga
caggtgaaaa cccttcacct ggatattcag gcgcgcgaag gggtgaacaa caacgcgaag
                                                                      420
                                                                      480
ggggcatcgc tggcaacggt ggtgcgaatt taccagctta aagagcgtaa ggcgtttgac
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agtactgatt atccgtcgct gttcgccagt gacactcagg ccattaaagc cgatcttgtg
                                                                      600
gcggaaaagg atatccgcct gcgccctggc gaatcggtga cgctggatat gccgatggaa
                                                                      660
gagagegege aggttgtgge ggtggegggg atgtttatgg caceggaeca ggtaaatgat
acctggcgta ttaccctgac ccgtgacgac cttgacccgg ataaggcgcg ggttatcgaa
                                                                      720
                                                                      765
gtcagtaata atcgtctgac gctgaaaccg ctggaggggg aatga
<210> 4902
<211> 213
<212> DNA
<213> Enterobacter cloacae
<400> 4902
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                                                                      120
ctgaaccata caacaagcgt agcaggagaa aggctaagtc attcaatgaa gggagaaatt
                                                                      180
aagacgttta gaagagggga tgttgcgccc cttcctgaat ttatgggaaa gtcaattcaa
                                                                      213
ttgaccctgc tgattagata taattctgcc tga
<210> 4903
<211> 429
<212> DNA
<213> Enterobacter cloacae
<400> 4903
gccagatgcc gaaagcgaaa gcgtaaggcg gtagcaggga tgaaaattta tcgtccgtta
                                                                      60
tgggaagacg gggccttcct ggccccgcag cagttccagc agcaggcccg ctgggatgca
                                                                      120
catgtggccg acaccgtggc ccggatggcg ctggcgaacc cgtggggtgt gctgtgtgcg
                                                                      180
gagttegacg aaggegetet ggeeetttea eggetgaatg eeaeeegget ttgegtgege
                                                                      240
tttgcggatg gtacgctggt ggacacagat ctggcggata cccggctgcg ctcaggcagc
                                                                      300
                                                                      360
eggtaegeeg etgtegegat ttetggeget getgeeggtg atgatgetge egggaeggae
ggcggaggga atgggggcgc tggtgcggct gctggcaccg gatacgcgca cgcaggttta
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                                                                      429
tcaccatga
<210> 4904
<211> 660
<212> DNA
<213> Enterobacter cloacae
```

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<400> 4904
atgccacccg gctttgcgtg cgctttgcgg atggtacgct ggtggacaca gatctggcgg
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                                                                      120
gtgatgatgc tgccgggacg gacggcggag ggaatggggg cgctggtgcg gctgctggca
                                                                      180
coggatacgc gcacgcaggt ttatcaccat gaccgctgcc gtatcccgct gaagcagccg
                                                                      240
                                                                      300
gttgcgatga gtacatgcca gccggtcagc ctgaagcacc ggccggtgat gggcacgcat
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gccacggatg tgaacggcca ggtgctgttg cgcctgagca cggacaaccc ggaagagatc
cggggctggc tgccgggcgg tgacctgcac gctgacctga tggcgctgct gcacgtgtgg
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ctgggcgcgc acctggatgt acgtatgcag ttatgcgttg cccggcattt gctgccggat
                                                                      480
gegeggetgt cetgeaatge ggaacaaate gegeaggteg ggegeaegge agtgetgegt
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ccccttaatc cgcaacagaa cagaaacgac attatcacca ttcaccctgg acgctttcag
                                                                      600
                                                                      660
cgcgtccggg aaaacattca gcgaaggaaa aacgatgaag atggcgatta ccgctggtaa
<210> 4905
<211> 477
<212> DNA
<213> Enterobacter cloacae
<400> 4905
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ctgtacggta acttcgccgg cgggcttgac ctgcacagtg tcagtgagga gaaccagctg
attttatcag tactcgataa catgcagcgc atcctcaact gccgcgccgg tacgctggct
                                                                      180
cacctgccgg actacggtct gccggatatg acaaaaatcc tccagggaat gcccgggacc
                                                                      240
                                                                      300
geceaecage tgattaceae actgtegget gtgttgetga aatacgagee gegeetgage
cggattaatg tggtgatgca ggaacagatt cagcccggtg aactccgcta cgccattgat
                                                                      360
geggagetga agggggtggg getggtgege taeggeaegg aatttatgee egagggeagg
                                                                      420
gtattaatcc gtcatttgaa acaacagcag tatctggata atacagcccg attgtga
                                                                      477
<210> 4906
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 4906
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                                                                      60
                                                                      120
acattaaaga gtaacttttc aatggtttat tgtagaactt gtgctgtagc gggttctgaa
                                                                      180
atattaataa ttgatttctt cgccgtgagt cattgcattt tatctggcga aaaggtcaat
                                                                      186
ggctga
<210> 4907
<211> 255
<212> DNA
<213> Enterobacter cloacae
<400> 4907
                                                                      60
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                                                                      120
tcaaggtggt gctctaacca actgagctac agacgcaaga tggtgcgttc aattggactc
                                                                      180
gaaccaacga ccccaccat gtcaaggtgg tgctctaacc aactgagcta tgaacgcatt
                                                                      240
gtgttgtcgg tgacaacggg gacgaatatt agcggcacag cagtcttcac cacggggctg
                                                                      255
gaaggaaccg cgctg
<210> 4908
<211> 705
<212> DNA
<213> Enterobacter cloacae
<400> 4908
gttacgettt gegteggate tteggeeege tegtggtega agacaateea tageeatett
                                                                      60
                                                                      120
tegtetgeat gecetateaa eeaaaatgaa tgtteaaate atatategea attttetate
                                                                      180
gacattaaag tacaagattg gcttagccgt tcaagagtag cgtttattga tttccataat
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ctaagaaata cagataaaac cacattaata acagtggaac atcttgaagc tttacttact
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qttatqtcaa ctactcttqt cqcttacqct ccatattcaa aaaagagact taactttagc
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tttctaaatt catttacttt gtctaaaact tctcaaagtt acacattaac tttcccggta
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gttctcagtc egcttttaga tgctcttggc ggtttcattc aggaatgcat aaccgaaaaa
                                                                      420
ttgttaaaac gacgaaattc gaatttcatg gtttacgagt atcttaaacg ttcaggccag
                                                                      480
ageteteata aagtggagga cattaataac gaettacage ttaaaactet aaatataaga
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                                                                      600
cttatgagcg tccttactgg gctttctcag caaggactca tttcatttat ttgcgatgga
                                                                      660
aagaggggeg accggagaat agaagagctt cagtttatac cttatgttca acgaactcac
cctgaggtat taacttttca ggaatggatt agccccgttg attag
                                                                      705
<210> 4909
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 4909
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atgagcaacc aacccaccag cctgccagaa gaagatattg agtttgttat ggataccttt
                                                                      120
                                                                      180
cagaggagca tgggtaaatc caaacctgtc agggatactc aaatagaggg cgagaaaccg
caaagtaaag agtccgcaaa ctcaactgaa aaccccggtt atgaagaatt cttttaa
                                                                      237
<210> 4910
<211> 459
<212> DNA
<213> Enterobacter cloacae
<400> 4910
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attgttctta tcgccggaaa tgtgtggtta ggccttagag ctgataaaat tcataaagtg
                                                                      120
cgttatcagg atttctggtc accggcaact gtgattaaag taactgtaat gccttcaacg
                                                                      180
aatgaaatcc agctcagtgg taaaatccct aaatcggtaa gagtttcaaa caattatgtt
                                                                      240
gagtactcgt taccgggcac actctcggac aagaccattt accgaagcgt gttagaagat
                                                                      300
gagatgetea etttgettaa tgetggaggt caaettgaag ttaaatacae tetggacaag
                                                                      360
cagacaaatc gaactaaggt atgcactaag tgcttacggg tgattaaaga tattaaccat
                                                                      420
caatattcag ccactgaggt aaagcatggg cagtcctaa
                                                                      459
<210> 4911
<211> 330
<212> DNA
<213> Enterobacter cloacae
<400> 4911
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                                                                      60
aaggattcag gctttttgcc cgcctttttt aaacctccat gtatcgttct tgccccgttt
                                                                      120
atgegggget ttttttttge ttetttetat gagttgaeat etttaagttt tatteagaga
                                                                      180
cataaaaaac tttttcgtgt cactgaacct attaggttac agagcgacgt tgctatcctg
                                                                      240
                                                                      300
gtaaaagttt tttctaaagg accggtaaaa tgtcatctct tgattctgaa gctaaacccg
                                                                      330
ataatgcagg tcacagcgta ctggctttaa
<210> 4912
<211> 1824
<212> DNA
<213> Enterobacter cloacae
<400> 4912
                                                                      60
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actgcccttg ctactgtatc ttcggcacat gctcaggtat ttagctactc atttacagat
                                                                      180
accaataagg ctgttcggaa tattaagcct gcaacacaaa catatcttaa tcccgctggt
gttttgactc tgaacttgat atcgggtctt gatcggtacg agcgagtgac ggtcacacga
                                                                      240
                                                                      300
gacagcgata aaaaggttat gtattcctcc gtctcgacca aaacgagcgt tgcagatcgt
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atcgttgctg ccgatggaac agaatactat ggaaaggata tggttctacc ggcgctcgga

aatcaaatcc agtga

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gaagggacct ttactgtagt caatgaaact ctggatattc gccagactgt agtgagcaca
                                                                      420
tctacttatc atttcatcgt tgatacaact cctccacgct ataagagtat ttatccgagt
                                                                      480
caaaacgcag gttacgacat ggtactttct gggccacttt gggagttggg ccgaggcggt
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agtggccagt tttctatatt tgcagacggt attgaggatg ctagtggaat tgccaagatc
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cqtcttqtca ttaaacqaaq taatqqttct qtqqtctccq acaataacct qaqttatqac
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acagccaata aacgtgcgtt ctatccgtgg attaaagata tgaacaccca ggctggcatg
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ccctcaagtg atcttgatga agaattcacc ttcaatttca tcgttacgga cctggcagga
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aatacgctta acattcctcc ccagcggttt ttatatgacg atcaaatggg agaatttacg
                                                                      840
ccatttgcag ttcatgactc acgtgtaagc accagtgttg tacccggcat ttcttcggga
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tacgtcccgt ttaaacgagg ccttacagtg ctggaaaacc cctacaagtt ggttatacgt
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atcccaagaa ctaactggaa gccatatcga aatggtggca tgagcattac caataactat
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ggcggagtac aggtcctttc cgaagatgcc acctatgtct acgtggaagt taagctgcca
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                                                                      1140
cagggtgcct tagatggaaa ctactataga cctgtgaata catatcaatg gtctggagga
gatcttggtc agtatgccag ctggctcaac tgggatcctg cctctgtaaa gagtccggct
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tggaacctgt tcaaggcatc tgatatgcct ataaaactta ctaatatccg gttcaatgta
                                                                      1320
caggctaggc catatgatca aaaaatcact ggcggagcaa catgcagtat tccagctggc
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tcaacaacct gtaccgtctc tttgccccag gatattataa atggcactac cggctatctt
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catagtggct atgaagtaag gtcaaccacc gaagcaacct tctttgcccc tatatgggag
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aatatageet ggcatacaet gggteeetee gteaetggat ttgattaeat tgaaaceaee
                                                                      1560
aacattctcc aggtttacgt gaatcaacct ggagatggtt catatttcga ccatgtttat
                                                                      1620
gtaaatcgag tttggttgtc agataaaaac cgtaacaacg cagaaataag cgtaaccggc
                                                                      1680
aaacaaacag gtagaaatat ggcgtctggg aactacacgt atgagttcaa catgaaagag
                                                                      1740
                                                                      1800
gtaccagaag gcagttataa cgtggtaatt aatgcccaag atacattcaa caataccggt
aacctccctt atcaaactgt tgtc
                                                                      1824
<210> 4913
<211> 213
<212> DNA
<213> Enterobacter cloacae
<400> 4913
gttgatcaag tctggattgc tatctgcaag caatgcattt tgtgcaaaca tgttcagaaa
                                                                      60
aacqqcacca ccqcctataa aqqqttctac ccaccqqcaa ctatqatcqt qtqqqtaqtq
                                                                      120
atggctgatg aaaggcatca gtttcgtttt tccaccagcc catttgatta tcggcatgtg
                                                                      180
tctgagatgt cgagtcaaag tgtctatacc tga
                                                                      213
<210> 4914
<211> 309
<212> DNA
<213> Enterobacter cloacae
<400> 4914
gcacccaaag aaaaatctgt tactgtttta gatgtcatac tttcattaat agtaatcatt
                                                                      60
gcgacaatga atggtgatgc aattccaagt gttgctagga ctatcaccga tatttcagac
                                                                      120
cggttttctt tagcggatcc tttacttatt gcagacattg ctctgaacat aacaaatgta
                                                                      180
ctgttgagca tcagaaaaca gcataagagc atgtataaca ttgggtttcc tcaacctata
                                                                      240
agtgatggtt accetgttat tttacataaa tttgactcaa cagatgcttt taaaatctcg
                                                                      300
                                                                      309
cttccttga
<210> 4915
<211> 195
<212> DNA
<213> Enterobacter cloacae
<400> 4915
actcatacgt gtagttccca gacgccatat ttctacctgt ttgtttgccg gttacgctta
                                                                      60
                                                                      120
tttctgcgtt gttacggttt ttatctgaca accaaactcg atttacataa acatggtcga
aatatgaacc atctccaggt tgattcacgt aaacctggag aatgttggtg gtttcaatgt
                                                                      180
```

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<210> 4916
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 4916
                                                                      60
acceacacga ctctgcacgt ttccttctcc ctgggcacta attttagttc cgttgtgctc
togatgatoc toagacotga ogttoatoca ogtgatotga gootgtggot gtatatacoa
                                                                      120
                                                                      180
qttatactcq ctgccatggc tgcccttgaa tttaccagca ttgaacgtgt acccagcttc
                                                                      186
agctga
<210> 4917
<211> 381
<212> DNA
<213> Enterobacter cloacae
<400> 4917
                                                                      60
gagttegget eeggtacett ttaeggegee eetggeeteg acaagegtga eeagtgttte
agcatcatcc tgttccagaa tgttcttctg cgtatccggt acaggccgga cattcaccac
                                                                      120
ctcaccggga agcgtaacct gtacggtacc tttaccactg atatccagaa ggccgtcttc
                                                                      180
actggttaca atactgttgc ttgcgacagt atctccggga gtaacggtac caaaaatcaa
                                                                      240
cttaccacca tcaattccca gtccaccgat atgctgggta ccatctccga ctatggttgt
                                                                      300
                                                                      360
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accaccagtg gtgttattaa cctgagaatt ggcccccttt atgtacagcg caacgccatt
                                                                      180
aacagcgata ctgttaccgg aattttcgaa gcggccatca tccaccagga taccaatatt
ateggtacce getgtaaaat egatatttee gttattaaeg ageaaaceet gattaegegt
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tataaaacca gtcgcattac taagcgcggt ggttatatcc gcctcgttag taagaacaga
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accogtattt tgacctgtga cggaaccatc gaggccgtat gcattaccat caacctcagc
                                                                      360
                                                                      420
cacaatagcg ccgtcaccta caaggtttac gctaacaccc tgttcaagcg ttgcttcagc
                                                                      .480
cccccggta acgtacaggc ccttagcatt atcccccaga atctgaaaat cacttccaga
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cccqqcaacq actttqcttc ctgtacccgt gacccagata ccgctgctac cggtgccgga
                                                                      555
ggttttcatc tgtaa
<210> 4919
<211> 225
<212> DNA
<213> Enterobacter cloacae
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gatttggttc aggttctggt gtcgtatcag gcccgggagt cgtatctggt tccggggccg
                                                                      180
                                                                      225
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<210> 4920
<211> 333
<212> DNA
<213> Enterobacter cloacae
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<221>unsure
<222>(8)
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                                                                       180
ctcattatgt tctgggacan atatgggctt aaatcttcca ggcgccagct ctggtatgtt
ctggggcagc taaagttaag cctttattct ttaggtatcc cttacgattt tatccagaca
                                                                       240
aaaaaaggaa gaggttacca tttggaaaag gtgaagatat atctgataat tgattctgga
                                                                       300
                                                                       333
actcaatgca gtcatctaga tcatagtcgg taa
<210> 4921
<211> 186
<212> DNA
<213> Enterobacter cloacae
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                                                                       120
tggctgttct ttctgcaacc aatggaggta ccgttacact ctcttcttcg gggagactta
                                                                       180
ctggtgtttt accagcgtat ggctatggtg caggcgttgt ggccagttct ggtggtactg
                                                                       186
gtataa
<210> 4922
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 4922
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acgcatgttc aggccctggt tcagaccctg agcgccacag ccgacaaaga ccacttttta
                                                                       120
                                                                       180
acccagaagg aagctcgcgc catcagcaaa atcatcgcgc gccaagaagc ggcaaaagcc
                                                                       186
cagtag
<210> 4923
<211> 198
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	<212> DNA <213> Ente	robacter clo	pacae				
	ggcccatttt	tttttcgcat tccgcatgaa ttaatcgcat taatgtga	atatcagcat	ctgctaaatc	ctgttagatc	attgttaatt	60 120 180 198
	<210> 4924 <211> 228 <212> DNA <213> Enter	robacter clo	/ pacae				
	gccgatggcc gcaggttccc	gcatccagcg gtcgcgcagt tgggccagcg gcctcaacaa	ccgctatcgc cgatggcgcg	ctgccagatc ggcatcgaag	ccaatgcgcg ccgggatgat	caagctgctg	60 120 180 228
	<210> 4925 <211> 207 <212> DNA <213> Enter	robacter clo	pacae				
-	acgcgtttcc ctgggccatt	actetgecag tgaaaccatt acgeeegtet egaegtegat	agcgcttaac gatgacgcaa	gtcgcgtgcg	atacggtgat	ttttcgtcgc	60 120 180 207
	<210> 4926 <211> 249 <212> DNA <213> Enter	robacter clo	pacae				
	attagcgtgg ctggctgcag	gtgtaaacgt attctaaaac acgctgccct ctgattatgc	tggaagcaag agcggcaatc	cctgtgatgg aacgaacatt	aaagcaacag tcagtgatga	ccggataatt atttgtgaaa	60 120 180 240 249
	<210> 4927 <211> 192 <212> DNA <213> Enter	robacter clo	pacae				
	gtaggcgatc	cctctgatta tggacacagt tgtttcattt ga	cattgtgtct	aatccaataa	tatccctctt	tcataattca	60 120 180 192
	<210> 4928 <211> 273 <212> DNA <213> Enter	robacter clo	pacae				
	<400> 4928 aaaactaata	taatcaaaat	gatacaatca	cagttaacac	aagttatatt	ttggctgggg	60

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ctgattgcag cgctcccggc cttctatcgc tttgtgtacg ctggttcctc tttgatatgg
                                                                      120
cacaaatatt tccctgtaaa gaaaattgag atacagttgg ttaacgaaga taaggcattg
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attgaaaaca ttgttctaga ccttgataag caggatgcca agagggttat cgagctaatt
                                                                      240
gaatcaagcc gtaaaaaggg taaggttcgc tga
                                                                      273
<210> 4929
<211> 900
<212> DNA
<213> Enterobacter cloacae
<400> 4929
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                                                                      60
                                                                      120
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aaccttatat ccaaagccga tgacttaatt aacgaaggtg gaaaatcagt aaaggtcctg
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ttttctgctc ctgttgaaaa agggtctgtt ggtgttgcat acactgttgt acaacttctt
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ccagatgcca ttgacgttct aaaaactatt ggcatagtcg gtgctgtagg aactgctgtg
                                                                      300
cacgettetg cactgteet aatacgaeat ettggtagta agaaagtaat ttetgtgaeg
                                                                      360
cgtcacacag gtaaaaagaa agggatagcc accttagaat tagatggcga agatattgag
                                                                      420
tgctcagctc ctgttgcggc tctggtcaca gaccctgcca ttcgcaatgc acttatcgca
                                                                      480
gttgtgcaaa aacctcttga aggtaaagac tcccctgtct tcaaaattgt tgatagtaaa
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ggtaaggaaa ttgtccgact tgagggcgat gaaactgaag aaataaaacc cgtccctaaa
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ggcactttac tagaaaaaga cgttgaaatt aaggaggtta acgtgaaatt tacccaagtt
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                                                                      720
aacttccaca gcgagaaagg ctggagaatg gagtataaaa acgaagagca ctctgtacta
cttacagact atgaattttt agctaaagta aggggtgcag agggaaccat aacaagtgaa
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                                                                      840
gaccttttct cagtatcttt agagattacc aaaaccacct cagctagagc ttccgcagag
aagtatgtta tcaagaaagt tatccggcat cgagttgctc aaggtaaaaa actaatataa
                                                                      900
<210> 4930
<211> 198
<212> DNA
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cccctcgcca acctccccac ccggtgcttt ggcaaaatac tggtagcact tgccgttatg
                                                                      120
ctggcgggtt gcgcgattca gtttgaccag atggcataca ccgcgctgaa cagcatgaac
                                                                      180
                                                                      198
gtcgtactgt ggcattga
<210> 4931
<211> 219
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
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ggcctagtgc aggtagctta ctacaccgac ggtatcactg aggaccttga aacgggccag
                                                                      120
                                                                      180
acaataactg gtgtctggca tctgacacga ggtgatgata tttgccataa cggtgaggct
gaagtgattg aaggcccact gtctgcgcca ctgaaatga
                                                                      219
<210> 4932
<211> 417
<212> DNA
<213> Enterobacter cloacae
<400> 4932
                                                                      60
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gccggtttag ctttgaccgg agccagtgtc tacggtctat tgaccggaac tgactacggt
                                                                      180
gtagtttttg gtgcatttgc gggcgccgta ttttacatag cgacagcggc tgacctgagt
                                                                      240
gtgttacgtc gcctggcata cttcttcgtg tcgtatatcg tcggcattct ttgttcgggg
ctgttgggtt caaaactcac atcctggacg gggtacaccg agaagcctct ggatgctatc
                                                                      300
ggtgccgtaa tcgcttctgc gttagccgtt caaatcctta cgttcctgaa caagcaggac
                                                                      360
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		4	1723			
atcggctcgc	tggtggcgct	gataacgcgc	cggggaggtt	caggtggtac	taaatga	417
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<400> 4933						
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<210> 4934 <211> 342 <212> DNA <213> Enter	cobacter clo	pacae ·				
<400> 4934						
gggaaagatt taccagcctg gaatggctga gatgggagcc	ccccgttcgg tgaacgcgat agttgatcgg cgagacccga	attgagacca ctatgtggag ggtagaggca cgattcagag cgcgttatat cagcgtaaat	agattaaaca tttgcactga accacagagg accttcgcga	accaggcgga tgaacgagaa catcaccgtc agggtacgat	tgagaacaac ggggcgtgag cacgtcatca	60 120 180 240 300 342
<210> 4935						
<211> 732 <212> DNA <213> Enter	cobacter clo	oacae				
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<210> 4936 <211> 597 <212> DNA <213> Enter	cobacter clo	pacae				
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cgacagtggc	aaaagtccga	cgttgaagat	gcggaaagtg	ctgacgggct	ggacgtgatg	480

atgctggctg cagaacagat gaacgtctcg ctgacgtcgg tctggcatgc ggtccgtggc tggcacaaga cccggcagcc ttctccggca cgaacgccgg taaggaagac ggcatga	540 597
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<210> 4938 <211> 219 <212> DNA <213> Enterobacter cloacae	
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<210> 4939 <211> 255 <212> DNA <213> Enterobacter cloacae	
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<210> 4942 <211> 228 <212> DNA <213> Enter	robacter clo	oacae		•	·	
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	ctgcggaata atttttatag					240
	gtactgctta					300.
	cagcatccct					360
	catggtgcag					420
	attttctgga				tcagttaagt	480
gataagcagc	tggcagttgc	cgcccgcatt	ttaggtattc	attaa		525
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	tgttttatat					120
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	taagccctat					240
	aactgcgtat					300
	gtcagatagt					360
	gcgcctgggt					420 480
	ccgttctgct atggagaaca					540
	ggtacagagt					600
	ctcatttcaa					660
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	ttggcgtaag					780
	accgtcgtct tctatacctc					840 900
	gaagtgagct					960
	cacccgcatc					1020
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	tgagggagtt	tatagctgca	aatgaggaat	attttaagta	ttaccgctgg	1200 1206
tcttag						1200

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<212> DNA
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                                                                      120
                                                                      180
gcttqccaga cggcactcat ttcagagtgc catggcgagc ttgaacagct gagttttgaa
                                                                      240
qacqqtqqqq tttacqacta caacqqcqaa aatcactaca gtqtcaggag ctqcgtggag
gttgctccag aagacgttgc aactttgcaa cgcttccttt aa
                                                                      282
<210> 4946
<211> 441
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
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tctcaggatc ctatcacgaa attaacccag acgttgcaac gcgacgatgg ttctcaggtt
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cgtattgtag cgcagcgggg atatggaagt gggcttacag cctcgcttga tgtgtacgtt
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tggagaaaga tgtcagtaga tgagtatcag aaatttggac gctctgaaat gctgcgttat
                                                                      360
                                                                      420
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gatggcaacc ctgcgtttta g
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gcagaaggtg agcgtttgct tgataagcca ctgacagatt gttctctgac tgagaagctg
                                                                      180
                                                                      240
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                                                                      600
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ctqaqctqcq acqtaqcqqa ttcaqcccag gaggtcgtta acaaacgact gaaggcatgt
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<212> DNA
<213> Enterobacter cloacae
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                                                                      120
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cgtaccacat cttcgacagg ctttgattat tacggcaaga ctctgaccgt accagcgatg
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                                                                      240
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                                                                      300
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acgagaaatg ggtggaactt tggcagcgaa gcgatcttca cttcagtacc agccggtatg
                                                                      360
                                                                      420
cagtacgcca gcgtccaggc actggtcttt aatggactga gtgataaagg ttccgggctt
gctaatgctg aatatttcat aaccgatgcc gctggagtgg agcgtaaaaa gccagcggaa
                                                                      480
                                                                      540
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600
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gtgcaggacg ccactaccgg atcatgggtc tcctatcagt ctggcatgac cgtcttccag
                                                                      720
aaccctattt ccgtacgggt attaaggaag aaaagtgact ttactgctgt taacggttcc
                                                                      780
                                                                      840
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                                                                      900
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                                                                      960
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gccccgaaga tagtggctaa agagatgtac cggagtgata ccagtgagtg gttaactcag
                                                                      1020
                                                                      1080
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                                                                      1140
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                                                                      1320
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                                                                      1380
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                                                                      1440
tactgggata ccaaagtttt cgaagccacc cttaaaaatg cccgggggga aactttcacc
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ctgaagcctg tgactgtcag tgaaagcgat tataaaacca aaaacgccac tttctcatac
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gctggtctac cggacgggga ttatacggtt gttagcgtgt ctgccacgga tcttggtggg
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<210> 4949
<211> 291
<212> DNA
<213> Enterobacter cloacae
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                                                                      180
catattgatg tttttattaa tatgttcgaa gacccgattg atgatgttat ttcacgaaac
attgaaacca aaacctttgc gacgctttat aaatacattg aacgtatacc ttttactccg
                                                                      240
ggtgtaaaga aagaattott gagcagtatt gagaacatca attttagtta a
                                                                      291
<210> 4950
<211> 333
<212> DNA
<213> Enterobacter cloacae
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                                                                      180
gatattcccg gcggcatccg ggtagcagca tgcatttcac gggttatcgg tgacgttacg
ggcaatattc ctcgtggttg gctggaaaca ccgaagcgta tggctgagcg aggagttaag
                                                                      240
                                                                      300
tgggcgacga gtctgcctga ggggctttac tttaacatcc aggggaacgc acatgcgaaa
                                                                      333
gtaagccggg ttattcgtaa tgtgactaat tga
<210> 4951
<211> 801
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
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aaaccgctta tggccccgct gaaaattcac tcaacgcttc cggttattgc gttcaccttt
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aatggcgcag acgcagaacg aaaactggtt aaagggcttg agaacctacg cataagcgtt
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actgatgcct ctggggatgc ttccctgata tcgcttcagc tcgctggtgg acctaactct
                                                                      300
```

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<213> Enterobacter cloacae

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attatgctgg ataatctcaa gacgctggcc acagccgtag cactgaaagc aacggacaac
                                                                      540
                                                                      600
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qqacaqttaa acqqaaccct qactqttcaq aaaaacqccc aqttcqqcqt tacqqttqcc
                                                                      660
qqaqttacqq tccaqcctqq tqaaactaaa tcqctqtcac tqqatcttqq taatqqtqaa
                                                                      720
qaqcqcacat atcccqttac tcccqctqta agtgqtcaat ctqqcacqqc cacatttact
                                                                      780
                                                                      801
atagaattcc ctcaaacata a
<210> 4952
<211> 453
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
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aactttcgaa agggagcttt cttacatgca aaaatttctg ctagccaggc cacgcgagcg
                                                                      180
actgatattt ccattcaatt actcacggat cgtgtttcag gtgaaatgaa ctacgtaata
                                                                      240
gtaattggca ggcacgaagg actcctgcaa agcgaagcaa ttgacccaaa cgctgataag
                                                                      300
caataccggg aaaaccgtta ttctcgccat tttatctcag taaccgatgc caataccaaa
                                                                      360
                                                                      420
gccctgaaaa aaacctgcaa ggtaatgaaa acatatatca aagagcaggc atttaagcct
aacacctggg ggcacagttt cattaagggt tga
                                                                      453
<210> 4953
<211> 648
<212> DNA
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                                                                      120
gataaggcga tgagcctcgc ccttcgtgcc gagtatacag gtaatacaga cgagtttatc
                                                                      180
ccgcccggta gatatcggcg tttgtccaac ggctgggatg tggtgatgtc caataccccg
                                                                      240
atggagatca gaacctgcca ggatttttta gagcgagcca ccgggcgcgt gctcattaat
                                                                      300
ggtcttggtc tggggatggt gcttcacgcc attcttcaaa aagaagatgt aacccatqta
                                                                      360
                                                                      420
acagtaattq aaaaaqaaca qqacqttatt aacctcqttq cqqcctcqtt tqcaaacqat
                                                                      480
cctcgcgttg aaattatcca tgctgatgca atgatgtatt gcccaccagc aggcgtcacg
                                                                      540
tacaacgcat gctggcacga catatggcca gacttcgcaa cagctaacct ctcacagatg
gataagctgg aaattaagta ccgggacatc tgtgaatggc agggctcgtg gggcagggag
                                                                      600
                                                                      648
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<210> 4954
<211> 390
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
gttttagccc gaaccctggc gacgcctttt aaaccggcgt cattcttttt acgagcaaca
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gacggagaaa aaatgaatct gaacgaacga agcacgagcg cagcaacgcc agatttgagc
cgactttatc tcatttccgg gcgcattatg tttgatgatg atgatcaggc ctacctggtc
                                                                      240
                                                                      300
gaageegaet eeeetggtga tgeagaggag gettteegge ateatattge tgacagtgee
gacgacttag aaaaggtgat tatagtttcc tctacaagtt tcgcttcagc tcacagcagt
                                                                      360
                                                                      390
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<210> 4955
<211> 240
<212> DNA
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			1 72 7			
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<210> 4956 <211> 222 <212> DNA <213> Enter	robacter clo	pacae				
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<210> 4957 <211> 288 <212> DNA <213> Enter	robacter clo	pacae				
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<210> 4958 <211> 297 <212> DNA <213> Enter	cobacter clo	pacae				
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<210> 4960 <211> 1434 <212> DNA <213> Enter	obacter clo	pacae				
<400> 4960						
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<211> 234

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240
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gaaatgaaaa agacaacgcc ccgaagtgcg ggaacacttt cagggcgtct aaccaaaacg
                                                                      360
ttagttgagg taacattatg gcttgcacta agtctaccca aacacgccct gaatttacat
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                                                                      480
ggcgttttct caccttgggt gaattcacaa atcagatcgt caatgttact gcttccaccg
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gtgttgagga ggtgcagcat gtttaacctc cagaccctga cagcaaaagc acgcgagctg
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cgcggcaatg tggtaaaagc cactaccacg aagggcaccc gcaccatgac ccccgtttac
                                                                      660
                                                                      720
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gatgctgccc ggcttgctgg cgatcacatt gggtacatgc actgggatag cgtgagctgc
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                                                                      1020
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gaacgtatgg agcgcaatct tatcggtgac gacctggtat tttcccgcag ccagattgaa
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cacaacgtaa tggtgtgtt tacccgcgta gtaaacaaac gtctgcgcct gagcgcctac
                                                                      1260
tecageegea aaattgeege gtttaatete atgteegeeg geggegaaca gggtttgetg
                                                                      1320
gtcgcctctg aaatgctcgg gcacagtaac ccggcaatca cccgaactta tctccagctg
                                                                      1380
gggagcaagg ccgcggctat ccagacacgc ctcgctatgg aggtaaacgc atga
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<211> 372
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
ttttacttat ggcaggcggg aaatctctct tgcgatagca gccgactcct gtgcccatcc
                                                                      180
ctgcgcaagt actttcacca tttcgtcata gccatctttc tgctgcttga gttcaagatg
                                                                      240
aaaaggacgc ttaatcagct gaccctggtg attcagcagc cactccccgc tgataacaac
                                                                      300
ggcaccatca tagcggccat ggaatcccgt cacgttaaca ttcagagtgt cctgatcgct
                                                                      360
teccagagge tgegaggeaa egacecaace ggggagetgg etgeteagat tegecaceag
cgtattgcgt ag
                                                                      372
<210> 4962
<211> 297
<212> DNA
<213> Enterobacter cloacae
<400> 4962
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aagtttttaa tattgtggca tatttatgcg ttttcatatc tgtgcatatt tattgcgttt
                                                                      180
tttgccgtcg tgccagaagt aaagctgttc gattacctgt caattaaata cggatttatt
                                                                      240
gatattgaac ggtgggatat ctattactcg atttttgcga tgtcaacaac agtaataata
                                                                      297
aacttcttgt ttattttatt aactttccgt tttacttcta aaaccaaaaa gaaatga
<210> 4963
<211> 213
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
ccgtctcccg taaaagaacc cgatatacac gttattcttg atggaaagga gcgagctaat
                                                                      180
gtgactgtga catcagggtt agaagtcgaa ttactggaaa ttccggtcgc cgtaatatca
                                                                      213
atgattgttg agccactcat agttgcccat tga
<210> 4964
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<212> DNA
<213> Enterobacter cloacae
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                                                                      60
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cgtatcgcct accgatataa aaaaattggg gagccacggc tgctctcctg tgtttatgcg
                                                                      120
                                                                      180
cgaatcattc actcccataa ttgcgtagcc tcaactattg gctcggacga tatttctggc
                                                                      234
aaaacaattt ctttacctgc ggggaagact gcgcacatat cgactactcc gtaa
<210> 4965
<211> 192
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
cttgccgcag gaaagctata tataaacgtc gaattcgcgc ctaaatcacc atgtcagagt
                                                                      120
                                                                      180
gttattatca cttatcgtat taataacgat tacaccgttg aacaattcgc ggaattactt
caggcggcat aa
                                                                      192
<210> 4966
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<212> DNA
<213> Enterobacter cloacae
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                                                                      120
atggctgaaa gtgaaacaga tggcagcagc gatgtgatga tgggcctcgg cgaatcattc
atcttttgca tatcaacggt cgcgtataac tctctgcagc gttctgatga atggcgatgg
                                                                      180
                                                                      240
gttgagcaga caaggttegg aaaaaatgae tegetaeagt geaeeggeag aeegaaaeeg
                                                                      300
acgatcacac ttgctggcaa aacccatgcg ttatttcttg acggtgcagg cgtcgggcag
                                                                      360
attgagctac tgcgccagct ggggaacaca tacgagccgc agcagctcgt catgggtacg
                                                                      420
ggtgaagtga tgggctactg gacgataacg gcgctctctg agaaccagac atcgtttctc
gcgaagggag cgccaaaagt gcaggagttt tcgttgtcgc ttaaatacta cggagaaacg
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ctgacagcat cataa
                                                                      495
<210> 4967
<211> 312
<212> DNA
<213> Enterobacter cloacae
<400> 4967
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                                                                      120
cgtccatatg aaattgacgg cgtggcgcat gataaattaa ctatgttcga gccaaaactg
                                                                      180
cgcgataaaa ttctctacag taaagataaa gggacggagg atgaaaaaag cgctcgcatg
                                                                      240
attgcacgct tattaaacgt aaaggatacg gacctaatga atttgccatc ctgtgatttt
                                                                      300
gcgcgcctgg aggacgcgtt taatgaaatg gtaaaggacc cagtcgatcg gaacatgaaa
                                                                      312
ttgttctcat aa
<210> 4968
<211> 1068
<212> DNA
<213> Enterobacter cloacae
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cccaattttt ttatatcggt aggcgatacg gatattactg aaaaagtgag aaagggcctt
                                                                      120
                                                                      180
atcaatatct cgcttgacga ttacggtggg tcaaacaagc aaacggatca gattaaagtc
                                                                      240
gcgatagtgt cagaatcgct gcgtataccg gccaggggcg tcaaagtgac cctcgggctt
gggttcggta ctcagatcgt taataagggc gtgtacgtcg ttgacggcgg ctcaagcggg
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                                                                      360
ggcgagccgc gcatagtcga attcactgcg aaagccgccc caatgaacag cgcaaagggc
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*					
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<210> 4969 <211> 198 <212> DNA <213> Enterobacter clo	acae				
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<210> 4970 <211> 282 <212> DNA <213> Enterobacter clo	acae				
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<210> 4971 <211> 207 <212> DNA <213> Enterobacter clo	acae				
<400> 4971 agaaacagca ataaacagac gaccttttta cgggagttct acgcagattt tttcggaaca actgctcacc ccaatcgttt	gatgtcgtta aatctcgcaa	cctgccttaa	ttgcaaaaaa	atgtgacaga	60 120 180 207
<210> 4972 <211> 243 <212> DNA <213> Enterobacter clo	acae				
<400> 4972 cgaagagctt ccgcaacccg ggcggctacg tcttacccga ggcaaaaaaa aagccggaga tcttgcgcat actggaacag tga	cctaaatacc catcgcctcc	ccgcaggccc ggcttttttg	gcgtaagcga tacccgctat	agcgccatcg tcagacaatc	60 120 180 240 243
<210> 4973 <211> 213					

<212> DNA <213> Ente	robacter clo	oacae				
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<210> 4974 <211> 225 <212> DNA <213> Enter	robacter clo	pacae		·		
aatggcacat gacagatatg	tagcaacacc aaaaaactgg	ccgtcgtcgt tgttgtcact	ggcattaatc aaaaatctcg ttctctggta tcgtattgga	tattaagaca ctggcttttt	gtttgttgag	60 120 180 225
<210> 4975 <211> 204 <212> DNA <213> Enter	robacter clo	pacae				
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<210> 4976 <211> 339 <212> DNA <213> Enter	robacter clo	oacae				
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<210> 4977 <211> 654 <212> DNA <213> Enter	robacter clo	pacae				
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catcttcagc	agttgattgc	cagctatgct	ctgctgaagc	accaaaaaga	ataa	65

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<211> 324
<212> DNA
<213> Enterobacter cloacae
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ccgatacccg atcctgtccc acgtccgcag ccgatgccgg atccgccgcc cgatgaagaa
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ccgattaaat tgtcgcatcg ttag
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<212> DNA
<213> Enterobacter cloacae
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                                                                      180
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                                                                      240
                                                                      300
acggttggct acagccttag tagcggtata tgtcgttatg ctattacgac gatcattttg
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caaaatgggg atcgcagcgt caccattatg ccagaacagg tgatcagggg gtcggagaag
                                                                      420
gggtgtgtga cgatgagtat taatgtcccc gatagtctgt cgggggcgag gatattccat
                                                                      480
ttaagcatgg cgcctgaaac aggctggtat attcgtcgcg ggcatcaaag tgcaaaagag
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aatattctca tgactgagga ctgttttttc caggctatcg actgtctggc ctga
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<212> DNA
<213> Enterobacter cloacae
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ctcacttttc gtagggtgaa taaaaggaga aaaattgatg agtaccgatc tgaagttttc
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gctgtttacc accattgttg ttcttgctct gattgttgcc ggtggtttaa ccgctgcact
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gcactgattc aggcggaggg agaaccttct ccctctcttg ccgctattgt tacctctccg
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gcaaaaatct tttgccaaaa tgttaacttc tcattttttg tgattgatgt catgcttttg
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acttcttag
<210> 4981
<211> 231
<212> DNA
<213> Enterobacter cloacae
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gcgaaagaca ttattggcgg cgcgttaaac ccgttcgctg gtctggttaa aggtgcacag
                                                                      120
                                                                      180
ctgggttacg acactggcgc cagcatcatg ggcatggttg gcggtgtggt tggcggagtt
                                                                      231
ctgggtggcg caatgggctt cctgggcgcg ctggttggta gctacaacta a
<210> 4982
<211> 489
<212> DNA
<213> Enterobacter cloacae
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ttcctgttta acaacaaaga tgttgtgacg gttattcata aaggcgtgct caagaaagaa
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ggcaaaagct acctgattga ccgaaattac acgctcatcg tggaagaagt cgatggaagc
                                                                      300
                                                                      360
aatatctttt atattaagga taaaaagctg aataaatctg aagatgatgc ggcgccggat
ggcgttgtaa acgaaatgtt acttgataat atcaacttct tctatattac cagcgtaaaa
                                                                      420
                                                                      480
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acgtcctga
<210> 4983
<211> 219
<212> DNA
<213> Enterobacter cloacae
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caggccatca teggtggttg ggatecgttt getgeegeta tteagggege aagegeggge
                                                                      120
tataacgcgg gcagccagat gttaggcgcg ctgggcggca ccatcggcgg cgtattcggc
                                                                      180
                                                                      219
ctggtgggcg gcttcatcgg cggtttcttc agcgcctaa
<210> 4984
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 4984
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                                                                      60
                                                                      120
aaggtcccca tggttttccc ttccagcacc gtcgcggcgg gtgcgtcgat ttttgcgggc
                                                                      180
tgtgtggaag agtcacacgc ggtcaggagt aaaaaagtcg ccagaacgct ggcgcgtaaa
                                                                      234
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<210> 4985
<211> 273
<212> DNA
<213> Enterobacter cloacae
<400> 4985
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gaaagcagca tteteagege agegeaacge attattgtga getgeegeaa agaaagcaga
                                                                      180
aaagcagaag aaacgcagaa aggaaagtca tgccccttct ctgggggaga aagggcttat
                                                                      240
gcgggaggaa ctagcgtgac aggtagcgcc gggaaacgcg ttttgccagt ttctgtaaca
                                                                      273
gcggctccag agcgaccgcc agcatcattc tga
<210> 4986
<211> 249
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
tattctcacc tggtgaatat cactaaggag tggttaattt catcatggct gaatataaag
                                                                      180
ataatttgct tggcgaagcc aacagcttcc tggaagtgct tgaacaggtt tcgcgcctcg
                                                                      240
                                                                      249
cgccgctga
<210> 4987
<211> 342
<212> DNA
<213> Enterobacter cloacae
<400> 4987
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			. 1550			
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aatattaatt ttgatggtcg gtcgcagcgc gattttgtag cgatacgcca gatcacgatc	ttcgcgaaca agccttataa gttcggcaga gtatggatat atcataaagg cagtaaaagc	tcccgaacgg aagcgaaatc agagatctac ggcgcgtaaa cggaaaaaag agaggccgct	cgtccctttg tatcaggtgg cttccacact gccctctttg ttcatacaga tatgatgaga gcggtattca aaggctcacc	gccggggtga ggcgttataa aagagtaccg tgggatacac agcgccaggt aaacgtgctg	gcagggcgta aaatgctgaa caggaataac ccgtgcccgg caaacccctc ggataaaatt	60 120 180 240 300 360 420 477
<210> 4989 <211> 461 <212> DNA <213> Enter	cobacter clo	pacae				
cttgaggagt gttgtaaagg catgaaatac tggaacaata ttgcctgagg cgcacgttaa	acttettege ggtteetgaa tgagatggeg aaattgeaca gtagaaatee ecegetetea	ccgaaacctg attcatgggt gcgacatgta tctcagggcc tttcaacaat gctaacccgc	aaaaaccatc cgtgctgcaa gcaggcaaaa ctcagagaaa ctctataact tgcaccgtac ctttatctga agatcagcgt	cagaatggag ctccattaat agcaacaatc atgcgatgga agcgggacag taatgcagca	ctatacgaag ggttactcat ggcgcagacc aagtggttta aaagaaaaag	60 120 180 240 300 360 420 461
<210> 4990 <211> 243 <212> DNA <213> Enter	cobacter clo	pacae				
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<210> 4991 <211> 198 <212> DNA <213> Enter	cobacter clo	pacae				
<220> <221>unsure <222>(133)	9					
			cagctggcag ttagcgggta			60 120

ctggccccaa agnccgggaa aagatgg ccgttcgcga agcggtaa	agc tgggagatca	gtttggcgtt	agccgtacag	180 198
<210> 4992 <211> 342 <212> DNA <213> Enterobacter cloacae				
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<210> 4993 <211> 408 <212> DNA <213> Enterobacter cloacae				
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<210> 4994 <211> 357 <212> DNA <213> Enterobacter cloacae				
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<210> 4995 <211> 1461 <212> DNA <213> Enterobacter cloacae				
<pre><400> 4995 aacatgaagg tcactattga tggtgtc attggcattg ccataacaac gcataat catcagcagt ttttaccgca aggggcg ccagcggaag ttttcgaaga cgtgcag gcttcgaaga acgccagttt aaccgcg tgggacgatg acgcctggcc catcgct gaaccgcacc ttgcttacca gtttctc gcgatcctgt accgggatga taagcac tattaccacc gcagcgctat cgagaag atgtacgaac acagcgacct cgccctg tacggtgatg tggtcggttc agaaaag gagcgttcgg taccgcgtcc cgaccga</pre>	cgc gctgacgcat ctg gtggtcgtca ctg cttcgccatg ctg atggacgccg gat aactggcact gat ctggcaggaa atc gcttacaccg gtt ggcggtttcg cgc atccataatg ctg atccattctc	tgaagcgagc tagatgatgg aaacatcact ggtgtgagca tgccatacat cgaataagct ggcagcgcgg atcccgttta ctggcctgac tcgatgagca	tctggcgcag ttcaaaacct cggcattgtt tctattcctt cgaatcaccc gaaggatatg cgtgatgctg ccgtcgccgc gacatgggct tgaagccgta	60 120 180 240 300 360 420 480 540 600 660 720

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aacgaacggc gtgatgccgg gtttactggt tacgctgaat accgccagca gcgcgatgta
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gttatcacaa cgctgctcac cagtcagcct gacccgcagc gcggcacgaa aatggcggcc
                                                                      840
tegeetgaca tgetgageaa atgggeggee tegettegee agtgtgggeg tatagegetg
                                                                      900
gtggatgaat tactgacggc cccggccgat gttgagctgt atctcgtacc tgacgtgaag
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atgaatgtct acttccgtcg ctggctgcac atctggcagc acctgcgaga tcaccctgaa
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taccggttcg tctggtgtac tgatggcacc gatgtcgaaa tgctccgcgc accgtgggaa
                                                                      1080
gaaatgcagc ccgggactgt ttacgtcggt tctgaaccga agacctacgc cgacacctgg
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gcgaaacaga atcatcctga gcgtatctat caggaattca ttgaatcgca ccgcggcgat
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gtgatgctta acgctggact gctgggcggt acacgcgctg atgtcatggc gtttgctcac
                                                                      1260
ggcatcatcc gtctttacta ccggatcgag agctatcgtt tctggaagaa agaacaggct
                                                                      1320
ggcgccgcgg tgggggacat gctggcgttc ggtattgtcg ctcattcatt cgcaggaaaa
                                                                      1380
gtgattaccg gacctcaggt gcacaccgtt tttaaaactg atgggatcgg aaaagataat
                                                                      1440
                                                                      1461
gcctggtgga aacataaata g
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<211> 813
<212> DNA
<213> Enterobacter cloacae
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tcactcgata ctccataccg tttgaagagt gtagactctg gacgttgtgc attgactaat
                                                                      120
ccattttcaa tttctttaaa tgtatggagt agagtaatgg gaattctcac tttcgatatc
                                                                      180
acttgcccac attgcctgag ggaaaatgca gtcctggaag gatgggccga actgcgaata
                                                                      240
aacqccqqtc ctttaqttaa tqttqcqttt aqttqtcqaa qctqctttca aqctqqtata
                                                                      300
gctatggtga aaatgaataa tcctgttggt ttttcgccct tgtcaaaatc caagcagaat
                                                                      360
aaagatgtaa atgtaatcat teetggaaac etggaatate agttgattga egtttteeeg
                                                                      420
aaacctatca cgctaagtgc acctgaccac acaccatccc gtgctgctat ggctttcgta
                                                                      480
gaagcgaaag acaaccttgg acgaggacgt ttcgacacat ctgttatgct ttgccgcaaa
                                                                      540
gtgctggaca ttgcaacaag ggaattatta ggaaatgact caaaagatga aaaattggtc
                                                                      600
aagcgaattt ctatgttgca tggcaagggg ctaattacag accaaatgaa ggaatgggcg
                                                                      660
catatagttc gaattgattc caatggtgct gttcattccg atgaagaatt ctcaaaagaa
                                                                      720
gatgetcagg agatgattgg ttttaccgaa gtatttette tatatgeatt cacattgeet
                                                                      780
gatatggtag acaacaagaa acaaaatcaa taa
                                                                      813
<210> 4997
<211> 204
<212> DNA
<213> Enterobacter cloacae
<400> 4997
aaaagccgca caatggcggc tactgtctgt atatcagggt gtaacttcgc tttaacccgg
                                                                      60
                                                                      120
gttaatgtaa gcattcagcc cgtcagtggt gggacactga cgcactctgg cacggaggaa
                                                                      180
tggctgatta cctctgataa ggaaatgaaa tgtctttttt gcacaaaaga atgcatctta
                                                                      204
atcaaggtga taccgttgtt gtag
<210> 4998
<211> 192
<212> DNA
<213> Enterobacter cloacae
<400> 4998
acaatgcgat tttacgcata ctactggttc cttgataaaa caatgaccaa cttgccagaa
                                                                      60
cggcaaaaga cacccgaaat cagactaatc tggacaggag cgctcacatt agcaccgatg
                                                                      120
gagattttcg caagagccaa cctttgcgtt tacaaattag ttttacttta taacccattc
                                                                      180
acattgtcct ga
                                                                      192
<210> 4999
<211> 204
<212> DNA
<213> Enterobacter cloacae
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acggggtttg acgtcatatg	gtccccggat aagagagttt aagaccattg aagttacgta	cggtgagatt taacgcgtgg	cgcctgcgtc	attgcgttgc	ctccatggat	60 120 180 204
<210> 5000 <211> 279 <212> DNA <213> Enter	robacter clo	pacae				
gcgcaaagca atcgcctttc tcttcaggga	ccgcatgggc gaggtctgac ccctcatggg tttccatacc ctgctttcac	tgataaccga gagcgattat catcagcgac	agcggcttca tccacgatga aacatggttg	tgacccatgt acagcggctt	gattgaaaaa gccagtcatc	60 120 180 240 279
<210> 5001 <211> 201 <212> DNA <213> Enter	cobacter clo	oacae				
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<210> 5002 <211> 642 <212> DNA <213> Enter	cobacter clo	pacae				
tatctgaacg gactggaata gatgatttc caaccgggct tggattaatg aaatttggca aataaattcg tttctggatt gaagcgccta	acacattgtc aaacatggac ccacgcagtt acgcagtctc ggctgcgatt cgctcgacat caatgtcccc ccagcactaa atgcccagga aacttttgct cggataaccg	ggatatcgct agactatctt agtcaatcac tatcgacgat cagtgagtta tgtggggaat aacgtttacg aagaggcgcg gcgctgtagt	ctcatcaaat actgagtatg cctgtatcac atcattcccg cccgttggcc ttgcgcataa gttgcggacg gcggcgggtg gaaactgatg	atcctggaag cgattaattt tctttttga ccggagcaag agcaaaattt aggaatccgt tcatcgatcg gtgcaaccgg ccatctggat	tgaaaaaat tctcgactat tgaccatggc ccgccgttac cttattgctg cccagaatgg tgcggccgat tgctggcggt	60 120 180 240 300 360 420 480 540 600 642
<210> 5003 <211> 183 <212> DNA <213> Enter	cobacter clo	pacae				
gttatacatt	tacgcttact ttcatatccg atgaattgac	gaaatttatt	ccccaagaca	atgagttaat	ttcatgtatt	60 120 180 183
<210> 5004 <211> 207						

<211> 207

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<212> DNA
<213> Enterobacter cloacae
<400> 5004
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                                                                      60
                                                                      120
cgccattacc tgctactcgt tacttacaag attgatacgt tatcaaagga tattgccgtg
gtcgtgtcag acaaagtatt aaccaaaatc cgtgttagtt ttgcacaaaa aaagtcaatt
                                                                      180
                                                                      207
cgtttaattt ataaacctcg tgaataa
<210> 5005
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 5005
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                                                                      60
                                                                      120
ttgctgaaaa tagcggcgat cgcagacaaa atcataaccc tggattcaca tgcatcttac
                                                                      180
actotogaac tattttogot atggttaggg ttaagcgttg ctgctggcac agtcacggca
                                                                      186
atataa
<210> 5006
<211> 222
<212> DNA
<213> Enterobacter cloacae
<400> 5006
tctgctacca gtcccattag aaagcatggt atcagggttg taaggctgaa ccctaaccaa
                                                                       60
tegegecatt taccagegge tttategget attacggtga atageaaate aateaaeget
                                                                      120
gtgaagattc ctattatcat tgtgaagata gtgaagagca ttgttagcga catccaacta
                                                                      180
acagagccgc tacagtcccc caaaaagaga gacaaaagat ga
                                                                      222
<210> 5007
<211> 537
<212> DNA
<213> Enterobacter cloacae
<400> 5007
                                                                       60
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atgaaacaac ttactttcaa cgacctacgc aagcaaagcg cacaagccgc aaattccccc
                                                                      120
cgcttacgtg cccatcataa tttccaccct gaattgagcg acccggtgca gcgtctggct
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attgctatgg aaccgggaac ttatgttcgc cctcatcgcc acccgcatac ttttgaactg
                                                                      240
                                                                       300
ctgacatccc ttaccggtcg ctttttggta ttgaactttg atgacctggg taacctgacc
                                                                       360
cagcgcgtcg tgttaggtga ggactgtaaa gtgctggaga tggatgcagg cacctggcat
                                                                      420
acceptatted cactegrater aggregate attitted gage taaaacacege tagetaccae
                                                                       480
cctgttgctg atcaagatgc cgccccatgg gcccccgccg aaaacgagcc gggaactgca
gagctgatga aatggtacac acaggcgcaa gtaggtgatg gcggatatcc gcggtaa
                                                                      537
<210> 5008
<211> 393
<212> DNA
<213> Enterobacter cloacae
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agagctaccg gttccgaagg tggactcaac gaataccgca actgggttct ggaaaatagt
atgagattta cagcatacgg tatccatacc gttatcgtcg aaggtgaggc gaagcatata
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                                                                       240
acagcgcttq atgatgttac cctctqtaac gagtgggcga agcttaaaag agaaaacaat
aggetttacg cageaaatga aaaaatttge tetggetgge gtggttttgt gttgegtttg
                                                                       300
ttaggaataa cactgccatg cagaaaaccg gtcatcttac tgggggtaga tgggaagaat
                                                                       360
                                                                       393
caaaatgatg ccgtgaaagg ggctgatttg taa
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<210> 5009
<211> 366
<212> DNA
<213> Enterobacter cloacae
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                                                                       60
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ttctctgaac gctcagtaca cttaatcacc tcttgtacaa agggcaagaa tcatcagggc
                                                                       120
cacqtctggc cgacattgga catagatcca aaacaaaccc cggacgacgc agcatatgcc
                                                                       180
                                                                       240
tggagtaaca ttgtagacga cgccagaagt aatcaggcgg taccggcatt gtccttgtat
                                                                      300
tcaggtaatc actggtctac ggcaaaggaa attttaaact caaccagaaa tctggagttg
                                                                      360
tggataatct ctgccgggat ggggttttta aatagtcgag atcgggccct tcttatgagg
                                                                      366
ttttga
<210> 5010
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 5010
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gtcaggcatg caatacgttc attctcttta tcccgcgcca ccttcaacct catggaggaa
                                                                      .120
tgcatgtacg gtttaagcct gattcgcctt ggtttgttta ttgcgctcgc cattatcgcc
                                                                      180
                                                                      234
agcacagcaa teggtttatt tacctatgtg gtegtetegg eeetggeaga atag
<210> 5011
<211> 972
<212> DNA
<213> Enterobacter cloacae
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ggttttttaa cettcattte gaccategee acgeegttgt tttttgtggt tgeagggtat
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ctggacgggc aatcccgaca cggcacgcgc tggcagctgg ataagatcaa acgcctggtg
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atcgtctttc tgttctgggt aacgatttac tacctgtggg aaccctacca gcgcggatat
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ctgatccage cctggttcgt gttcgcgttt atcgtgattt acacgtttca cccqqtqqtq
                                                                      360
gageggeteg gecagegaeg aatgetettt tgeggggtga ttacegeect getgetttte
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tcatacqqqt acqatttqct gtcqqccctc tatcctqatq cccacqtcct ttcattqtcq
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ccgcagtatc gcctgtggac gtggctgctg ttttatctga caggccagct cttttgcgat
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ccgcagatcg cggcgtggat cggccgcaaa aacgtggtca gggccgcggt gattgcgata
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ccgttcatct atctcttcac atggttttac gaacggcact tcttttttgc gctatttaaa
                                                                      660
gcagacagaa acgcctttat cctcaccgga tcgcaaattt acattctgat tattgccctg
                                                                      720
                                                                      780
gtgattgcgg caaatggcgt gcggtttcgc cgcaatgcgg agtttaaaga gtccgtgctg
gccgccatta gcaaaacgat gaccggggtc tatatcatgc actactcggt gtttcacctg
                                                                      840
ctgaccgcgc tcattccggt gacgtccctg agcaccaaac ttgctctgat tgtgcttacg
                                                                      900
tttgttacgt cggtcctgtt ttcgctgctg atcctgtcca acacagtggc caaaaaagtg
                                                                      960
                                                                      972
atcaccctct aa
<210> 5012
<211> 225
<212> DNA
<213> Enterobacter cloacae
<400> 5012
gacacgctac agcggcaata tccgtgcctc ggtatcgtct ctacggtaaa ctatgcaaga
                                                                      60
                                                                      120
ttacggttca aaactgatgg ttacgggttt tgcaccttta gattaatgac tgagaggatt
                                                                      180
aaaggtatct catggctgaa tggagcggcg aatatatcag cccatacgct gagcacggta
                                                                      225
agaagagtga gcaagtcaag aaaatcacgg tgtccattcc tctga
```

```
<211> 354
<212> DNA
<213> Enterobacter cloacae
<400> 5013
tcaatggcgg ccgcaacggg ctggataagc gccgcgagct gtttaacctg gcgaaatcag
                                                                     60
ttctggtatg aggtgaatgt gggtatcgag acaataatcg ggctggccgc actggtcatt
                                                                     120
teegetateg eeggegettt tggeetagge catattegeg geaecageaa ageagaagee
                                                                     180
aaagccgacc agcagcgaac cgaagataac gcagcggcaa tggtcgcagc agccgaacgc
                                                                     240
agggtagaaa caacgaaaga ggccagcaat gtacagcaga ctgttaatca tatgcctggc
                                                                    300
gacgatgttg atcgcgagct gcgtgacgaa tggaagcgtc ccggcggtgg ttga
                                                                     354
<210> 5014
<211> 507
<212> DNA
<213> Enterobacter cloacae
<400> 5014
tggacgcgag ggcggaagat ggggatcagc ccgacactta acattcctca ggcgcgcttc
                                                                     60
ctcgcgatgc agcacaaatt caaagcctat gttgccgggt tcggttccgg taagacgtgg
                                                                    120
gtgggttgtg gcggcatctg taaggggatg tgggagcacc ctaaaatcaa ccagggttat
                                                                    180
ttcgcaccga cgtacccgca gattcgtgac atcttctacc cgacgattga agaggtggcc
                                                                     240
                                                                     300
tttgactggg gcttgaacgt caaaatcaac gaggggaaca aagaggttca cttctacgag
gggagacgat accgcgggac aaccatctgc cgttcgatgg aaaaacccgg ctcgatagtc
                                                                     360
                                                                     420
ggcttcaaaa tcggtaacgc gatggtggat gagctggatg tcatggcggc tgctaaagcg
                                                                     480
cagcaggect ggcgaaaaat catcgcccgt atgcgttaca agatcgacgg gttgcgtaac
                                                                     507
ggtatccctt taactggacc tgggtga
<210> 5015
<211> 930
<212> DNA
<213> Enterobacter cloacae
<400> 5015
acgatgaaag, aatgtaaaaa agataggctt cctgagtata aatcgcttag tgttttatta
                                                                     60
tttattatct ccatttttat tgtaatattt attccggttg cttcactatt aatcttggtt
                                                                    120
                                                                    180
attettgttg ttactataaa gaaacaaaaa gegagaacta aaceacaaga aaatatetat
cactttgtaa aggatatgaa cgcttttggt agtattcttg agtcacgttg tttaatgtcg
                                                                    240
                                                                     300
ttaacaggag ggcgatgtta tgccacttca atatttaacc cttaccttgg gctaagcttg
tttgacactg acaatattaa atatgtttta gttatgaagg ggaaggcaac tgatgtcttc
                                                                    360
aagcctataa ttagcagcta tcgggaagtt tttctccctt ggaagtggtg gaagtttttt
                                                                    420
                                                                    480
agaggtgagt atgtcagtaa ggctctgaaa gatttagagt ttaattgcga tgtcaagtct
                                                                    540
gtgcgtaatg agtacaaaga atacaataga tttgtatgcg gcagtcgaaa gagagtgctc
                                                                    600
ttttgttact tgtacataga caatctgacg gagttagaaa atgatttgag catatataga
                                                                    660
720
attgtatgcg gcaatctgat ttttctcggg ttgtgtggtt gcgaatttgt aaactcttta
                                                                    780
atgaactaca taagcaaaaa taatgattct ttcgctacgc atttttcaat ttattgggtg
                                                                    840
atatacatat caggigitti tittigcigia tittitaatig catgcitata titcatccig
                                                                    900
agaaaaaaat caattacctc gcgtgttgca aggcaaaaga aaaaatacaa atctaactat
                                                                    930
aaatttatgc tttcaatcag tgagaaatga
<210> 5016
<211> 396
<212> DNA
<213> Enterobacter cloacae
<400> 5016
gggggggcga tgtccgatcc attttccggc acgggctgg ccggtttagc tttgaccgga
                                                                    60
gccagtgtct acggtttatt gaccgggaca gactacggtg ttgtttttgg tgcatttgca
                                                                    120
ggcgccgtat tttacatcgc gacagcaact gacctgagta tgttgcgccg gctggcctat
                                                                    180
                                                                    240
ttcgtcgtgt cttatatagt cggcattctt ggatatggtc tggttggttc taaactcgcg
```

```
300
tcctggacgg aatatagcga taaaccgctg gatgccatcg gtgccgtgat tgtctctgcg
                                                                      360
ctggccgttc aaatccttac gttcctgaac aagcaggaca tcggctcgct ggtggcgctg
ataacgcgcc ggggaggttc aggtggtact aaatga
                                                                      396
<210> 5017
<211> 234
<212> DNA
<213> Enterobacter cloacae
<400> 5017
                                                                      60
aaacaacqaa agaggccagc aatgtacagc agactgttaa tcatatgcct ggcgacgatg
                                                                      120
ttgatcgcga gctgcgtgac gaatggaagc gtcccggcgg tggttgatac cggttgtgat
                                                                      180
tgggtgaagc caatcttcct gacggatcaa gacatcgacg ttctggaccg ccagacgaag
                                                                      234
aaagacatcc tggcgcataa caaagcatgg aaagcaaatt gcgggaaaaa ttga
<210> 5018
<211> 456
<212> DNA
<213> Enterobacter cloacae
<400> 5018
caaccgatga aaattcactt tattacaatc gccttgctgg cgacgatttc ttcgccatcc
                                                                      60.
                                                                      120
tacgcagcgt ttcaggaaag agaatacaat acttggtatc aaaaagatgc tgtactctac
gacattaccc agacctcaga gggattgcct gtcatgataa gcatctctca accggggagg
                                                                      180
                                                                      240
gagtcagcta atatgctcgt atcctatatg tccgatggtg gctgtggaga tgagaaggtg
                                                                      300
cggcttaatg ctaacgggaa ggatgtgcct gcaacttata cttgtgtatc agtcggagca
                                                                      360
gacaggattg aacactttgc agtgaatgat gcaagcaagg tcaatgagat ggttaaccac
                                                                      420
ctcaagtcag atttcacttt gttgcttcag aacgatatca aagtctgggc tgctaacata
                                                                      456
aagacgccta agtatggttt agcaccaaaa ttttaa
<210> 5019
<211> 1407
<212> DNA
<213> Enterobacter cloacae
<400> 5019
ctggacctgg gtgagcgcca acacattcac cagcaccacc tgccaataac tcattctgtc
                                                                      60
                                                                      120
tcaaaacaaa ccccgctccg gcggggtttt ttattgcctg gagaaaatat gctttataac
                                                                      180
actggcacca tcgccattaa cggaaataca gccaccggca ccggcacgaa ctggacggca
                                                                      240
ccggccagcc agattcgggt tggccagacg ttgtttgttc tttctaaccc ggtacagatg
                                                                      300
tttcagatca ccgccatcaa cagtgcgacg tcactgacgg ttacgcctgc cgcgtctcag
                                                                      360
gcqttgagcg gccagaagta cggcattctt gttactgata gtctctcagt cgacggcctg
                                                                      420
gcqcaqaqca tqtctcaact catcaacqag tacgacqaga acatcggcgc ctgggagacg
                                                                      480
ttegecacca ceteageaaa ecagaacate accgteacca teaacggege tegtgtaact
                                                                      540
attccggcga tcggcaaact ggtccagaaa gggagcaatg gggcggttgg agtttctgac
                                                                      600
ggcgggaccg gagcaacgaa tgccgctgac gctcgcacaa acctcggttt gggaacatcc
                                                                      660
gcgacgagga acgtcggggg agcccccggg aatgtcatgg aagttggagc gtttggtgtt
gggttaacta attttacggc caatagtgtt gcagacgcta acgacataac tttcaacggt
                                                                      720
tttagtggtg gcggtggtgc atcgtctgtg aatttctttg atcaatatgc tgggttgctc
                                                                      780
                                                                      840
gctataacaa ggtcaggtgg cggtgacggt aacggcttta ttgcgcaact tcagattagc
                                                                      900
ggatcaggtg ctatggccgt tcgagggcga gctgggacca cctggtcttc ttggatgcag
gtttacaaca ccggcaatac cacaaaggcg agcgatggca ccctgaaagc agcatctccg
                                                                      960
gtcgctcgta tcgttgcgag tgctgataca tgcctgcgat cagatattgc tgaggatgga
                                                                      1020
                                                                      1080
ttttcatggt gcggctgcgg cacggcgaat accgaagctg aaggaatcaa aattctccgg
ctcgatgtgg gagtttatgt gttgactggt tcgtcagggc tggcgtctga aggatggcag
                                                                      1140
                                                                      1200
ttactgccgc caatggaccc tggcggcatg ggggaactgg gtgtagttga ggcagagcaa
accgctgacg gcgagctgac tatccgcctg tttaagcgaa aatacatgct gagcgatgaa
                                                                      1260
                                                                      1320
ggggagatcg tcaaaacaaa aggggaaccg atggacgtgc cggtgaacag ctggatcgat
                                                                      1380
gttcgcctgg atatgcctga tgattctgtc tttaatcagc ggatgagaca ggaaccacag
                                                                      1407
cttgagcctc attctccagc tctctga
```

```
<210> 5020
<211> 192
<212> DNA
<213> Enterobacter cloacae
<400> 5020
                                                                      60
coggtgcgcg totggcgttc gcgctgcttt accggagcat gtccccttat ttaccctcac
                                                                      120
aacggtctgc tatacctgct cgccattacg cgactcgggg cagcatcatt gctgctgcat
ggccttatgg ctgcagtcaa cccgcttact gtttcaaggt ctttagccca tccaccagtg
                                                                      180
aaaacaatct ga
                                                                      192
<210> 5021
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 5021
tatcccacgc ttacgcttgt tgttatctgc ctggctgcca ggctatacat gactctgatg
                                                                      60
cggagaatgc caactccggg gaacatcaat aaaaagagca acgaaactga gactcctgta
                                                                      120
gccctcgctg agagggcttt tttttcaaaa aaaagccagc tcggacagaa ctggctgggt
                                                                      180
                                                                      237
ctagcagtaa gtaggtatta cttcgcactc atttcgacgt gtaccctatt cctttag
<210> 5022
<211> 276
<212> DNA
<213> Enterobacter cloacae
<400> 5022
ggaatgttaa gtgtcgggct gatccccatc ttccgccctc gcgtccacta cattgatatt
                                                                      60
gatetgaact ggggteggtt egteateate accateaceg geeagetett tgeggagttt
                                                                      120
ttccacctcc agcagccggc ggtcgatttc gatctgctgg agacgctgag cgaactcgct
                                                                      180
atcogccagg cogagoogct toattacogc ttcaaacatt cgctcacggc tgatggctgt
                                                                      240
                                                                      276
gatttcgaca ccattcttgc caaccttcac gcctga
<210> 5023
<211> 228
<212> DNA
<213> Enterobacter cloacae
<400> 5023
                                                                      60
gtaaaagcta actccatggt aacgaaaaaa atttgcaatc acctctcaat acattatcag
                                                                      120
cattctacag catcaacctt atttttggtg agctttttcg aatggcgaac tggctgctat
                                                                      180
gtttcgtcca tgatgtctaa taacaaagag tcacttatta aacaaataag cgagtatgcc
aggettaacg agcaggaaga aatccagttg cgcaagataa tcagetga
                                                                      228
<210> 5024
<211> 270
<212> DNA
<213> Enterobacter cloacae
<400> 5024
                                                                      60
atgccaaacg cctctgatta tttttcctgt aaccatatct tcagttttac cgtgcgaaaa
gtaggegate tggacacagt cattgtgtet aatecaataa tateeetett teataattea
                                                                      120
cctcttaaat tgtttcattt agaagtgtat atgacgattc agaacctggt ggtcgacaaa
                                                                      180
                                                                      240
acqttttttt taaggatgtg gcgccgggtg cctcccggtg acttatctct ggtcgtcaaa
                                                                      270
gtcgcgtgca tacctgcaca tagcagttaa
<210> 5025
<211> 186
<212> DNA
<213> Enterobacter cloacae
```

```
<400> 5025
aaaaaaatct tttttgagca tcggtttcaa aatggttttc cttttatgcc cggtgccgcc
                                                                      60
ggggcggtgg cgttaaatat acgccatgta agtaaattaa tttataccca tttgattgtc
                                                                      120
                                                                      180
aatacaaaca aaaaaacaaa ccatgtttat tattttatca acgatgctat tttaaaagtcc
                                                                      186
gtctaa
<210> 5026
<211> 270
<212> DNA
<213> Enterobacter cloacae
<400> 5026
                                                                      60
acagaaatga cgcatactgc cgtttctcag gctaatagtg ctttgcagct acccacggtg
                                                                      120
qaqcatqtct acgctcttct gaaagcaaat tgtaaacctg accgctttga cgggcgtgac
                                                                      180
ggacccgtgt ggggccagga atactcgtgg aatctggcaa aagatcgctt acaggatctg
gagaaatacg gtaaggcata tgtctcccgt catgaagacc gtatggggga aggatttagt
                                                                      240
                                                                      270
tttggtcctg acctgttaat tattcgctaa
<210> 5027
<211> 2433
<212> DNA
<213> Enterobacter cloacae
<400> 5027
aggggaataa gaatgaaaca tetegetttt attactgetg tageeggaet eggtatgtet
                                                                      60
                                                                      120
gttcaggccc cagctcagat atatgaatcg gcctttaaag acacgaacgg tattgagatc
cacgccccgt cttctcgtct tatgcttaat ccggcatcac cggtaacttt gacacttatt
                                                                      180
tcaggtcttg atcgtttcgt taatgtcaaa gtcacgaaag acactggaac tgtcattctt
                                                                      240
                                                                      300
aatactacga ctacacggac gggtgtatca gaccgactaa cagctgctga cggtagtgag
                                                                      360
ttctacggca aaaaagtaac tttgcctgct ttgggtgaag gcaaatttgt cgttcagata
                                                                      420
aacgtgttag atctcaatca gaagcctgta gcgacctata actataactg gctaattgat
gtcacccctc cagcggcaaa tgctcttacc gctaatactg gttctggctc taccgctggt
                                                                      480
gacgtgtgga agcttggatt agaggcaacg gggcagtatg acttcacctc ttcgggcgta
                                                                      540
agtgatgcaa atggtattga taagggccta atatatattt acaggcagga cggtagcctc
                                                                      600
                                                                      660
tacagcacta cacagatgca gtatgacgta tccggccaaa agatgtacca cacttactct
                                                                      720
aagaattcag ttaagggaac cggaatacca gacagcaacc tggatgaaga ctttactgca
                                                                      780
aaagttgtta tettegataa egeaggtaat ageegaaege tgeeaaetea aaaatttege
                                                                      840
tacgacaaca cgctgggtga gatgacactg tgggccgttc atgatccaaa tacgtcttcc
                                                                      900
agegtegtae eeggggttte taattateeg gettacaaag eeggtatggt egttaaegaa
                                                                      960
aaccctattc gattagtcta ccggatccca aaatctaact accgtgctta ttcagaaggt
                                                                      1020
gggcttcagt tcatcaatca atattccgcc cccaaagaga tagctgtaga cagcacttat
                                                                      1080
gcttatgttg aaatgactct tccctatggc tcaattaatg gggatatggc tcgtatggcg
                                                                      1140
aactttggcc agtggggagg gtattatccg tcatacagcc tcgttctaaa cccatctgca
                                                                      1200
aaccaaacgc ctgcatttgc gggtacctgg gtagatttcc tcgatgataa ggggaactgg
                                                                      1260
gttaagtgga aggattttga gagtgtggct tcatcacgac tgccaattaa aatttcccga
                                                                      1320
cttcgtttta acgttgaagc ccggcccttt gcacaagaga tcggcggtaa ggcgacctgc
                                                                      1380
accattccgg caggaaaaac ctcgtgtgaa gcgcctgaga cgtttgatat ggccttgggt
                                                                      1440
acccaggget acaataggat cetttactte gttegeagea teageaatee cattttgegg
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tctgaqcaat ggattatgac acgctggaac aataaacaac tgccggtaat aaactcgata
tcatatqacq aqactaacaa qcaqctggat gtactggcgt cacttgaagg cgatggtaac
                                                                      1560
                                                                      1620
tggttcgact cggtctcatt gagggaattt tatctttccg ataagaacac cggtacccgg
atgtcaccca caggcgtaat caaatctcgt atctcaggta actacacgat tgcttatgat
                                                                      1680
ttatcccqtc aqtctgaagg aaaatacaac gttgaggtca acatcaggga cttcttccag
                                                                      1740
aaccaqacca ataaaacttt cggagaaatt gctctggata acactcctcc gacagtggcc
                                                                      1800
                                                                      1860
ataacattcq acqqaaaqcc qqtaaaaqac qatacqqtaq tqtacqqcct qqaqaacctc
                                                                      1920
aggategete tggeagataa tetgaeaace eegaggataa eeegtettea getegtaggt
                                                                      1980
qqccccacaq ctgataacgt tgagcttacg tggtcaccgg caggcaaaga tacatacatg
                                                                      2040
cctgagtatc cgaggctgtt cccaaatttc gaaccatctg aaaattattc aattagcgta
acagttgccg atagtcagtc gaataccaaa acctatactc agaagttcag ttatctaccg
                                                                      2100
                                                                      2160
aataaccttg tgcagttaca taatctacgc acattatcgg tcagttcgcc tctcaaaacg
```

```
acagatggcg taccccttgc gtacctgtcc actaacgttc tgcgtaagac aaatggagaa
                                                                      2220
attgctaaag gggtccagaa cgcaacgctg actgtgcgga aggatgcagc cttcggtatt
                                                                      2280
aaatttaacg gggcacaggc ggctccaggt gagtcagttg aggtgcaaat agatatgggc
                                                                      2340
cagggggata atcttctgtt acccgtttat ccttccgaaa atgggaaagt tggcacctca
                                                                      2400
                                                                      2433
gaattcatga ttcagatcga cgagttgaag taa
<210> 5028
<211> 795
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(635)
<400> 5028
tataaagcca acacagaaaa ggaaaacaaa atgtataaat tagtatctcc tcgtgaactg
                                                                      60
                                                                      120
actgagatta ttaccggttt actgcttaaa cctgaactcc ttggtgagct ggactcacca
gaaaagcatc ggatgtttat ggcagattta ggccgcgtgg tggccgaaca ttgtggaggt
                                                                      180
ctggtaaaca gcgtcgtctt gccaggaaca gaagttacag tgtcggatgg gttaccgctt
                                                                      240
aatggccage eggtaegtta teteggaate aaagagaaca teeeteacet eettgtagag
                                                                      300
cctgatgett ccttaccttc gctcgctaaa aacgtctgga tgtatgcaga tcctgaaggc
                                                                      360
tggaaagaac attttggagc tgaggaagac tgccttactc ctgaaatgat gcagctgttc
                                                                      420
cgtaaaggta tccaggctct tcagaaagag catgacaccc ctgaaattag cctcacactt
                                                                      480
caggactggc gcctggagga ggaaacactg ccagaagagg acagtcaggc ctatcaggtc
                                                                      540
                                                                      600
agegttaceg gecaacataa catecactgt gaagttgtta acaaggaagg taacccctgt
                                                                      660
ttaggtgtca tgttcgaaat cgatcagggt gtgcntgcct tacacatcaa caccggcggg
                                                                      720
gatatgttgc tccacattca ttgcgcccat aacggactcg ttctgacccc tgatgcaagc
ggtcagcgat ttgataaggc tcccgttgac cgcttctctt ataacagccc atccctgctg
                                                                      780
                                                                      795
ttgtctgccg actaa
<210> 5029
<211> 612
<212> DNA
<213> Enterobacter cloacae
<400> 5029
tatggtaagc acaactggaa aaatatgttt tcaaagccta tgaccacttt cacaccagaa
                                                                      60
cgtattgaac aaattttgga atttgccgag ggtagtaacc caagcgaagc aatgagtctc
                                                                      120
                                                                      180
agagetgaeg aagttgetgt aetggeaegt attggaaagg eagttatgte gattgegeet
gtttatcagt gcgagttttg ccaccatgac gcaaccgggc aacttcagtg gcactgggaa
                                                                      240
gatgtgaaca aagcttttta tgataaatac gatccagaca gacgcggaag acgtcgaatc
                                                                      300
ctctataccg ccccgccgat gcctttagtt tcggctgacc tgcttaacat ggcttcatct
                                                                      360
                                                                      420
gctattgaag acttgctcac taacaaagac agaagtggtg cgggaatgtg gaatgacatt
                                                                      480
ccagaacagc tacgacgcgc agcagaactg gtaatggata atagccgggc cgctgaaaca
                                                                      540
gaagcgatgc tgatgcgtct ttatgtagaa tgtgacacag gtgagcgcag gggcaacggc
                                                                      600
actcaatctg gcgtagcaat gccttcttgg caaaccgttg aagaggcacg tgtgttgcta
                                                                      612
ggggtgaaat ga
<210> 5030
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 5030
gcttttccta aaggtcacta tgttcgtaaa agtataaaaa acttctccat atggtgctcg
                                                                      60
aaattacaaa totataattt gootttogac aaacottatt gtgogttoag gaoggaaato
                                                                      120
                                                                      180
tttctttttg gaattacatc tgacatttct gtggtgtcca aactggcaac gattgcaaaa
                                                                      198
cttataacat tagcctga
```

```
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 5031
gcgacctcgc ttagcgagca ttgcgatggc atgcatgaca tgtttaacgt cagagcgttt
                                                                    60
aaqqaatqqt qqattcataa cqataacatc aaaaqtttca tcqqqctqqt acccaaqaaa
                                                                    120
gtcggtatgc accagctcga ctcctgtgct aaggacacta tcgttcttca ctgcaaqqaa
                                                                    180
tegeteateg tteaattega teeeggtaat caatgeatee ggageegeea gttttaa
                                                                    237
<210> 5032
<211> 567
<212> DNA
<213> Enterobacter cloacae
<400> 5032
                                                                    60
cgccaccgcc ccggcggcac cgggcataaa aggaaaacca ttttgaaacc gatgctcaaa
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                                                                    180
aagcgagtta aagcccgcct ggcagtgtca atgatccacg agcaggcgat tgctgtgcag
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                                                                    360
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                                                                    540
ttaagtcatt accgttgtca ttgccatcca gaagagcgga tgatcctctc aattcatacg
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gcgacaatgg cactgagece agcaagtcae tteegttgte atageettee agaagageag
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atgageetet taattaacag ggtgacaacg gtagtgaget cattaagtea ttactattgt
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catqqccqta caqctqaqct qatcatcctc tcaattcaca cqccqacaat qgtagtqaqc
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<212> DNA
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<213> Enterobacter cloacae

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accgtgtacg gtatgtcccc aacgtccatc caattctcaa gcagatcagc tctggcatga agtcgtaatg agatcctgga	ttcaggatta acagacttta	aaggctattt	ctcttcatac	atccgaaagt	180 240 300 327
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<210> 5041 <211> 195 <212> DNA <213> Enterobacter clo	acae				
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<210> 5043 <211> 459 <212> DNA <213> Enterobacter clo	acae				
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<213> Enterobacter cloacae
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agtaagtaca taagcgagtt atatgctggc tataaggtaa cttactttga ttatttcttg
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cctgatgata agaaaaggct tgcatatatt gtagatgaca caatgacaat cgctaccctt
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gaagatggaa cgatcatttc tattggttgt aacgtaaact ataaggggag gtataataaa
                                                                      360
atattacaaa caggccaaac gatgggggaa ataatagggt tgacttacaa acagcgtata
tttaatggct gtattattat aaatgacgac tttggttttt cattcgagtt gccagcgcca
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tatgatgaaa ttgcagatag cattgcacat gttccactag atcttgttct taatgaaatc
                                                                      480
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<212> DNA
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                                                                      120
tcgttgtggc aaatgattaa agaaatgaaa tcagtgtggg gtaaacaagt tgaggatgtc
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ggaaatggtg ataacagcgt atctttggtt tctttcgtag ttaatcaacc atgtattact
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acgccgggac aatcagttgg atatcgcacc cctaccgatg aacgcgggct ggcatgggca
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caataa
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<211> 186
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<213> Enterobacter cloacae
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gcgtctcctg gttcaggacg gcacgctggc cggagaggag cagggggtct gggatgcagc
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cgctaa
<210> 5047
<211> 315
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ccatcaccac ccggtgtgtc tgggaatgac tgcctactgg gggaagcgca cggggatgtg
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                                                                      240
ctgttcacct acgtcgacga aagtggtcag gacaactacg atttgctggc gcgtgtagat
                                                                      300
agtgttgatg cttcatatat cttctgggtc cattgccaat ccaacggcac ggcacaactt
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ataactgata tctaa
<210> 5048
<211> 246
<212> DNA
<213> Enterobacter cloacae
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<210> 5051 <211> 345 <212> DNA <213> Enter	robacter clo	pacae				
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<211> 756 <212> DNA	cobacter clo	oacae				
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756
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<211> 726
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cacctgaata atataggtgc cggtgcccaa cgcctgctgt actacacctc ctgctttact
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gctaacgttt atatatccac cagcacgcta acctcgtatt cattctctgc aggcgtcgca
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gagatgatgt attteetggt ggageetget tttatgegeg egggegtget aacceageaa
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<212> DNA
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ctttcgtttg atgatgcaaa tgcaacggta gtagtaacgg acagcaaatc taaccatccg
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tacaccatcg ccgccgtcgg gcagccgcgg gacgtagcga aaattacctt cttcccgacg
                                                                      420
aaqaaqcaqt ctcaqqcacc ttacqttqac qqqqcqatta acaqctcqcc aatcqtqqcc
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                                                                      720
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teetggetgt tetatgetga tteaatetgg egteagggeg atgatateaa eetgtaegge
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gagaacgett actatggact cgagaaagtg caaacagaca gegattttge egatcaggte
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tggagetact tegeaacegg aacteagett caggagetgt acateaegee gteeatgetg
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aataaqqcqa agtqggatac cctgqcqcag qcqqcqaaat gqtcqcqtqa qaatqccagc
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gtgctggtgg atactcactg gattggcggt gacccaactt cgcttcaggt ttacggctgg
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qcctcatqqa qtaaaqacaa aqcqattttt qqcctacqca acccqtcqqa taaqccqcaa
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accetgaaag eegtgtaegg eagtaatteg acegtaeeag aggagtataa aaacgetgtg
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<211> 296
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acgctgatgt gggtgattgc gatggcggtg gccggttgcc tgttcgtgat cccaaccgcg
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geggagatee egattattea gaccatgatg atggeeggta tggggaeege accagegetg
                                                                      240
                                                                      296
gcgctgctca tcacgctgcc ggcggtgagc ctgccgtcgc ttatcatgct gcgtaa
<210> 5056
<211> 372
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tgtcatcgct gcacgcgaga tcgcgtccgg aagggcttcc gccgcggcaa tctgcgtttg
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aatgetttet gtgaageaca etttaatteg ttegageacg gtateeettt aaaatettat
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ttatgcgtct tcgccaaacg cgtttttaag ccagtcgatc gcatttccgg tgaaggctac
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cacatcgaaa cggcaatcca cagtatcaaa actcccatta tggcgggcaa gccacaagtg
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ggcagtctgt aa
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<210> 5057
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agegecatge egggeatgea ecaegacatg ageatgatgt eggtggaega geateatggt
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                                                                      240
gatatgccgc attctatgcc agttgaccat gctgaagcat gcggctactg cgtgctgtta
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gcgcatgtac cgggcgtgat gctggcgctt atcgttctgc tcagcgtggt gttgcagcgg
ctgegegtga agecgecteg teaggeggte agecaetgge aettttteee etggetttae
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<212> DNA
<213> Enterobacter cloacae
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                                                                      180
tgctactgga gattaaatga ggtcatccct caattattca aggttaataa cctgaattat
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gtgaaaagaa aacggcgcgt accggatcgt cttgattctt taggttatat cagccaaatg
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aaacttgcca tacggcctgt cgtcttgtcg cggcgatag
<210> 5059
<211> 291
<212> DNA
<213> Enterobacter cloacae
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gaaggggtag tacatgaact ctcctggatt cccggtgtgc aaaccgggag gggattatgt
                                                                      120
gcgatcccgc ccggaaaggg aattgacctg tggcaaaaaa agccacgtaa aacgcaatcg
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			ttctgcattc gaaaattgtt			240 291
<210> 5060 <211> 183 <212> DNA <213> Enter	cobacter clo	pacae				
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<213> Enterobacter cloacae
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240
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180

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1965

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                                                                      420
gattttgttc aaaaaagcat gtatccgggg cctgggtacc gcaaaatgca accatcattt
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gaggeteata egggeaegea tgaageggtt tteaageega aaacetgeat gtttatteae
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                                                                      192
accaatacgt aa
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gaactgaccg tcagtgcagc aagcgccagc gttatcattg tgaatgtgct tttcatcatt
                                                                      120
                                                                      180
tattcctgtc tttttaattc gacggctaat tacttctttt gccatttcat aaataacatt
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<212> DNA
<213> Enterobacter cloacae
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			1000			
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			attcaagtgc gagaaactat			60 120

			2303			
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<210> 5123 <211> 219 <212> DNA <213> Enter	robacter clo	pacae				
(210) Bileer	condition of	Jacac				
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<210> 5124 <211> 198 <212> DNA <213> Enter	robacter clo	oacae				
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<210> 5125 <211> 282 <212> DNA <213> Enter	robacter clo	pacae				
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<210> 5126 <211> 186 <212> DNA <213> Enter	robacter clo	pacae .				
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tgggtcgtcg	tcccggtcac	gtcatcagac	ataacgattt	cacctgtgat	ttgccaatac	60

gtagcttgct acattagcac tggctgttgg gtcatgcgtt aactga			_		120 180 186
<210> 5127 <211> 210 <212> DNA <213> Enterobacter cle	pacae				
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<210> 5128 <211> 399 <212> DNA <213> Enterobacter clo	oacae				
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<210> 5129 <211> 315 <212> DNA <213> Enterobacter clo	pacae				
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<210> 5130 <211> 687 <212> DNA <213> Enterobacter clo	oacae .				
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ttcagagccc agggctttta catggatgat tttccgtccc tgtcgggccg gaattcagcc
                                                                      120
                                                                      180
ccgggcttta tgcccgttaa ccgggacctg gtttccaggt gctcatattt tccttcattt
                                                                      186
gaatga
<210> 5132
<211> 306
<212> DNA
<213> Enterobacter cloacae
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ttqcctqcta taqqcqctac caccqaaqca qqtaqcacca qcgcagcaac aaccqgaaca
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acaaccggag caacggtggg aactaccgct ggcactacgg ggggactggc ggcaggggcg
                                                                      180
attgggacaa ccgctgttgt caccaccgct gcgattgccg gcgtagcgac gttagccgtt
                                                                      240
gtcgcggcaa gcgacagtgg cgatgactca agcaatggta cttccacgac gacagttacc
                                                                      300
                                                                      306
cgctaa
<210> 5133
<211> 186
<212> DNA
<213> Enterobacter cloacae
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                                                                      120
atactcgctt caattagccg ccacgacggc gaaaggatgc aaaactatta tggctcactc .
                                                                      180
acatttatta gcagaaagaa tttcccgcct cagcagtgcg ctggaaaaag gcctttacga
                                                                      186
gcgtag
<210> 5134
<211> 255
<212> DNA
<213> Enterobacter cloacae
<400> 5134
                                                                      60
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                                                                      120
accgtaggac gaggtcatgg ttgcaggctt taccgttctt tacgacgttg cctggccatt
                                                                      180
gctgacttgg gtgggcggca taatgtagca ccgttataca ttatgagcta tcactcgttt
                                                                      240
ttgtttaaaa aagcggcaat tgcggagtgg tttgattttg ctattgttaa atctgcgttc
                                                                      255
ccgcatgcct cctga
<210> 5135
<211> 339
<212> DNA
<213> Enterobacter cloacae
<400> 5135
                                                                      60
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ttcaqqtttt tttacaqtcc qqccttaaaq qccgcatcgg attttctaaa tacagtttta
                                                                      120
                                                                      180
cataaqqaaa atcqtatqac tqtatttcta atcctcaccq ccatcqcata tggcatcttc
                                                                      240
aaagccggct gcttcatcct attagtggtc aaggggtatc agggctggac attgttctgg
                                                                      300
aaaaactatg accgtctccc tcatatcatc cgttcccgct gccgatatca gagacgattc
                                                                      339
attttcagac gcatctggaa gcgaatcttc agccactga
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<211> 324
<212> DNA
<213> Enterobacter cloacae
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caacagattg atatgagect eggtgaegge attaaagetg egtteagaeg etegateatg
                                                                       120
actaceteca aegeacattt etgeegtaag aegggtteee tgatgtteea geacegeata
                                                                       180
aagatctata ccacgtcgtt tcacctcacc aagtacatcc acggaaggcg tttcgaaaca
                                                                       240
cgcatcatac tggtctataa actgctgata ggctatgccg gcattttcaa atcgctcatc
                                                                       300
cctgatggcg tccagtatct gtga
                                                                       324
<210> 5137
<211> 282
<212> DNA
<213> Enterobacter cloacae
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                                                                       60
atggttattg ctgggaaaat aatgtggaag gaaacagtaa atgcaaactg taccctggcc
                                                                       120
aaatggaagg catctaatcc gaacatagtt caccttaacc ccgataatac actgataatt
                                                                       180
aattatttct tatcaaatca gagccttgat gagaaatttc gactattgaa aacaatcatt
                                                                       240
                                                                       282
tttttgtatg agataaaaac tcacttgcaa gtacattgtt aa
<210> 5138
<211> 570
<212> DNA
<213> Enterobacter cloacae
<400> 5138
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                                                                       120
gccctggatt cgaaacgtcc ggggccggtg gccacgcggg atattgagcg ggtgctggaa
cagggcgggg acgccccggt gtacgggccg aacctgcgcg cctcctgccg gcgcatggaa
                                                                      180
gcagcgggct ggctgcgcac cctgcgcgcg cctaaccagc agctggccgt ggagctgacc
                                                                       240
ggggccggac gcgatgtggc ggaaccgctt tatcaggcag cccgtgatga cgaaatctcc
                                                                      300
cgccagcgcc agttgaaggt gcacagtctg cccttgcgcg agtcgacaac cggtgaggcg
                                                                      360
                                                                      420
gtggaggttt ttctcggtga cagcettcac cgtatetgte aggeageeta cgtgateegg
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ctcgacggct ccacctgtct gcaagtgacg aatgcaggtg gaatacgtca gataatggaa
                                                                      540
ggcgatcccc tgcaggtggc tgacttgtat cagacctgtt atgacgcggg tcttccggta
                                                                      570
catatccaga ttaacgagag ccaggattag
<210> 5139
<211> 306
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
                                                                      120
ttccggcgtc agacggtgaa caagaacccg atattgtaca ccggtgatgg tggcgttctg
                                                                      180
aaaaccttcc ctcacgggcg cgggcaaatg aaaggtgatg cctgtgtcat cgttttgcgt
accogagacg gtgagatatt ccaccagtat tttgccatcg ctgtcctcgt cggccctctt
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ttgccccttt atttcgggca gcgcgttatg tccgggggac ttcgtgacgt aagctatctg
                                                                      300
ttttaa
                                                                      306
<210> 5140
<211> 297
<212> DNA
<213> Enterobacter cloacae
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ctaaaccgga cattatcaga cggagcgtgc aggatggatg agaaagaagt gaatttttca
                                                                      60
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			1973			
agtcagggcg tatgaactgg	ctaaatacat cgattactgg	cagcgaatcg tgcgccaatg	gaagaacgta agtatggcca aaaaattacg atctggccgg	gcacccttct aacaaaccaa	gcaattctgg agcgctcatt	120 180 240 297
<210> 5141 <211> 417 <212> DNA <213> Enter	robacter clo	oacae	·			
gatgttttga caggactcca aaggtacctt gcaaggtacc gctgatgttc	ctctgatcga tgcccaaatt tgttacatga ttgcaggtga tggaacaccc	caacggactt ttcgattgtc gcactggagt tttccagtcg tcttcctaaa	gagagtgatg gtgtttctgg agtttctgga ctggtgtgct gtgacatacg gaaaccatcg cattccgatt	ataaggcgcg cagcggtcga ccggcaggaa atgaaacatg acgtattcaa	tgaagaattg gatcctgctg aatagagcga tcagcgatta aaaagtcaaa	60 120 180 240 300 360 417
<210> 5142 <211> 582 <212> DNA <213> Enter	cobacter clo	oacae				
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<210> 5143 <211> 213 <212> DNA <213> Enter	cobacter clo	oacae				
ttaaaaaatg agaaagatat	atacggtgga atctgaagcc	aaccgtgtca	aaggaggaca tttctggtga gtatgtccgc taa	aggctctgtt	tttcgttgta	60 120 180 213
<210> 5144 <211> 1068 <212> DNA <213> Enter	robacter clo	Dacae				
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<212> DNA

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                                                                      600
ggttttctgg aagagcggct cagaacgttg cttaacgagt acatctatgc aaatcaactt
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ggccggatcg ttctggacgg gttacatgca agcgagaccc tttatggctg gattttgctt
                                                                      720
gaaaaaaatg acctggatgc tgcccggttg atttataaga atgatttaaa gctgaataac
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gaaatgaagt ttgccgagct tcatgcagag gtgatgagca tctaccaaaa gagatacaca
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gtccggtccc tcctggttcc ctctgcatcc gggctcgcaa ctcaatga
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<210> 5145
<211> 186
<212> DNA
<213> Enterobacter cloacae
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gggtcatttg cctgtagggc ctggaactca tcaatgcagc tgatcctgaa cacctcccgc
ggtctgtcga cggtagtcag ctccttgtcg attatttatt cctttgtttg tgacatctac
                                                                      180
ttctga
                                                                      186
<210> 5146
<211> 375
<212> DNA
<213> Enterobacter cloacae
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agetetgtat aegeeagtae egaacaeae ggtatgtetg aettaegggt teagaaaaee
                                                                      120
gctaatgcca gctactgtaa tccaggttca catcgttgcg aggccccttt tactattggc
                                                                      180
                                                                      240
cgggataata ttgcaaaacc agacgggtca gataaaaact actgtaatcc gggatcacat
cgttgcgagg cccctttttc tactggccgg gataatattg ccaagccaga cggaacagac
                                                                      300
aaaaactact gtaaccctaa ctccagaaaa tgtaatgcac ctttcaccac cggacatgat
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aatattaatc agtaa
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<210> 5147
<211> 183
<212> DNA
<213> Enterobacter cloacae
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attaccetta egttetggat agteaaaata geagtaacea etttgggtga gaeeggtggg
                                                                      120
                                                                      180
gatgctgttt caatgtccat ggggataggc tacgccggca gggtaatgac tccaacttat
                                                                      183
tga
<210> 5148
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 5148
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                                                                      60
                                                                      120
cactatttgt atcgtgcagt atcaggaatg atcgtggttg ctgacacaat aacgaaaatc
                                                                      180
ctgcattttt gtaatcgacc tcatctatca ctacattatt gcaacttatt ggacacattt
                                                                      237
aatcatgtgc ttaacaatgt acttgcaagt gagtttttat ctcatacaaa aaaatga
<210> 5149
<211> 837
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<213> Enterobacter cloacae

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<211> 219 <212> DNA	robacter clo	Dacae				
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<213> Enter	cobacter clo	pacae				
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                                                                      1140
                                                                      1200
ccgatggaag tatttggtat ggccactcct gcttatctgg cccgaaagca actcaaaaaa
                                                                      1260
gattattaca accgtgaata tgggccttat ggatggtggc actgggatgc gaccacagca
                                                                      1320
totgaaacta tggtgctgcc tcattttcca gaatcacgta aacctctttc aactggcaca
```

```
<210> 5177
<211> 216
<212> DNA
<213> Enterobacter cloacae
<400> 5177
                                                                       60
aatggagaaa aaatgtcata catgctttca ctaagcgaac agacaaaact gaacgctttc
                                                                      120
ctgtcaggga tccttgatga ttacaagact ggggttatca ctcagataca agctgttggt
aaaatcggta acgtgttttc tgcactggaa agtggagact caaaaaaaggt agtgcatttg
                                                                      180
ttgactgaag gacgaaaact cctgcggacg ggctga
                                                                      216
<210> 5178
<211> 249
<212> DNA
<213> Enterobacter cloacae
<400> 5178
                                                                      60
gcatccaacg cagttatggt gtcaccgtca acaatcttaa ccacctttgc ctcaaaagtt
                                                                      120
gttgagttcc cccaggacgc cactgggaat acaacaatca tgatgggcaa aagtaacttt
gtaaaaaaaa acatcatttc acctgaattt gttgagtaca gacatgtatc cacaagccta
                                                                      180
                                                                      240
tttacaggca gtattttaac aagtcattat ttcatgggcg ggcttaaaac caatcttttt
gcaacttaa
                                                                      249
<210> 5179
<211> 183
<212> DNA
<213> Enterobacter cloacae
<400> 5179
                                                                      60
tgtcagaggt caaccatgac gtatttcgaa tcagctgaag gtgagacggt atctaaagaa
                                                                      120
cgagcattac aagaactgtc caggcattgc gttcccgaaa cagatttcga agaattcttt
                                                                      180
agcgacatgg gcgtaaagga acagtatgac gctcaggaag tgttgctttg gttgggatat
                                                                      183
taa
<210> 5180
<211> 369
<212> DNA
<213> Enterobacter cloacae
<400> 5180
tttaaagcaa ccatgaacat gaaaaagccc aaagctgcat tacagaatgc catgaaagaa
                                                                      60
                                                                      120
gatgtgccag ctgtgacaca gattcagatg cgatctacgg tttccagaaa ggttcgctat
                                                                      180
gtaaaacagg caaatcgaga gggtctgaaa ttatctgagt ggatgtcgcg gcatctcgac
                                                                      240
gctgtctgtg ataccgcaga tgagattcat aaaggcaaac gctcaactcc ggttgcgcct
                                                                      300
gggaagattc cccctgaggt ataccaggtg atatacgatc agtgcggcgg gttcgtggag
tgtgatgcta atgcccaggt aatctgggaa gcctgccgtg atgccattct taacggagac
                                                                      360
                                                                      369
aaagggtaa
<210> 5181
<211> 330
<212> DNA
<213> Enterobacter cloacae
<400> 5181
ggaaatcgaa tgtgtgattt ttgcagggct gacgaaaatt actttcatat ggcagaatgc
                                                                      60
gtgtatgacc aactggttaa agagtatccc gtaatgtggc tgcgggattc aacccggatc
                                                                      120
qqqqcctqct acctctqtcg agaactgctg tcgccggagg ggatggtcct ggcgatgcag
                                                                      180
agegetttee etgegaaggg atggeggetg egtatttggt acaatgaaac cattgacgaa
                                                                      240
gagatagaac cgcagcgtgg agactgtatt gagctgtcct ccagggcgga cgctctgctg
                                                                      300
tccttcatgt cgttccagga aaaggtttag
                                                                      330
```

```
<210> 5182
<211> 228
<212> DNA
<213> Enterobacter cloacae
<400> 5182
                                                                      60
gccaggatag cagatacete cettgtteeg tettteatee gcaactegea aagegagttt
cgtgtgagcc aggtgaatat caacagcgtt aaacaaacta ttaatatgca caaaacaatg
                                                                      120
ggttggttcg gcattttcat ggccttcttc tcctgtcaac gcaaagcaga agtgtcacca
                                                                      180
tcggtgcgaa acagagatgt catgctttgg ttcagagaat gcgtttga
                                                                      228
<210> 5183
<211> 225
<212> DNA
<213> Enterobacter cloacae
<400> 5183
ttcacctctg atatggccac ttgcgaaatg ggaatggtaa ctgttattac tatgtgttta
                                                                      60
cttgctgttc ttgttacgca gccccttaaa cacattactt tcaaatatga tttcctgctg
                                                                      120
                                                                      180
ggtttaaata tgtgtctttc tatagtgcgg caacctattt ttacaccaac tcatgaatta
                                                                      225
aataagaatc ataaattaaa tgagaggttt aattctcttg cttaa
<210> 5184
<211> 201
<212> DNA
<213> Enterobacter cloacae
<400> 5184
atotgogoco ttgtaagott otgggoggaa otgottaaac otgacataco ttocoggoot
                                                                      60
tatataaaac aatccgccag cagctcgact ggcggacaat gtttgactgg aaacagcaag
                                                                      120
gacatactat ttgctgacaa gtttgatatt ggtttcactc attcgaagtc gaaactcctg
                                                                      180
                                                                      201
aaaaccctgc tctaccgcta a
<210> 5185
<211> 624
<212> DNA
<213> Enterobacter cloacae
<400> 5185
atttgtttaa taaggctgag tatgatgaat aaagaacaac taatcgacaa actggaacgc
                                                                      60
                                                                      120
gtggtatgtg gtcagtactc ctacgaaatg caggagcttg cgtattcggc cctctgctgc
attaaaggca ccccggacga ctgcgctaag ttccctgtta cgcgtccgct gcctgacacc
                                                                      180
                                                                      240
ttagtggacg tatgggacga gatcgggcaa taccttggca caggcaaagc cattgaaact
                                                                      300
cgcagttgcg gcgtttcgct tctgcttcat ggacactgct acgattcaaa tcatgtgctg
                                                                      360
tactggcgca atgctggcgc acttccagca gcttgcgata cgccactggc tggtgggtct
cgcaaactgt tcacctgctc agcctgtgga gtggacggtc tggatgaacc acctgaaacc
                                                                      420
agttgccact gctgcacaga gggggcccac tggattgaga gcaggctctt cacctccggg
                                                                      480
                                                                      540
caggcagacc ctgaagaatt tagacccgtg gcggtcgtga aagagtgtgc aggctcaacg
                                                                      600
ccggatgatc ggctcatctg gagcgtgatt gaacagctca acggcgaact ggcggaaggc
                                                                      624
gataaactat ttaagcaacg ctga
<210> 5186
<211> 297
<212> DNA
<213> Enterobacter cloacae
<400> 5186
tctgggaagc ctgccgtgat gccattctta acggagacaa agggtaaacg gcaggtatcg
                                                                      60
cctgtcattt ttacccttgt gaggaaaatc ctgatgaacc atgagagccg aactgtatac
                                                                      120
ctgaacacgg ccattgaggc cctgttgaaa gctgaggcgg ctctgaacga gctggcatta
                                                                      180
gcctatgtac tcaaaccagg tgaaaaggca agcgcatgcc atccccgaac cggtacgctt
                                                                      240
```

```
tocacagett cocaggtaag aaaacttege egtgttetag aaaaaaacaa gttatga
                                                                      297
<210> 5187
<211> 924
<212> DNA
<213> Enterobacter cloacae
<400> 5187
ctgagtcagc cgagaagaat ttccccactt attcgcacct tccttaagag tagtgacgat
                                                                      60
ttttcccgtg aactgtcatt tcttttcac cggtctataa agattagaaa ttcaggtttc
                                                                      120
gcgatatttg gtgcgggcct gctgataatg atttttggtc tttgcttgtg gttgctgtca
                                                                      180
                                                                      240
ttacacctct caccttcagt tctggacttt gatattgatg tgcccttgtc attcttcaat
tcatctgaag gtgaagataa gttagtggtt tcggattttg gcgatgcatt tggaggcttc
                                                                      300
                                                                      360
ctaactacat attctaagtt gctattaggg attatggggc tattagtagt ttcttcaact
gcctttaaaa ttttaaaggg ggaggaaata ggtgagatat tcccgatgct tctaattgct
                                                                      420
ggcgcttttc ttatcggctt gtcagttttt acatctgctt taggttcgga agagactgat
                                                                      480
                                                                      540
gccacttcag cttcgactgt aaaggttatc aagaaatatg taaaacatga aaaatacgat
aaacttgtcg catatttaaa tgatagtaat tggccctcag gcgaagaggt atctgtaaac
                                                                      600
                                                                      .660
tatttaaagg cgcaactaca tataaaactc ggcaagccag atgtgaagtt aacacagaat
                                                                      720
gttgttaggg cgtatatgtc tggtgtatta cagtcaaata ttcccgtgaa agttcgttat
                                                                      780
gcattggaaa agacagcttt agataaatcc gtctcaccac ttgcgattcg ttatgagcaa
                                                                      840
aaacqtatqt ctaaatcaca taccttttca aaaqcqtcqq ttaattqtct taaaqtaqqt
agtcccgtcg cattcgttgg cgttttgttc gctcttcttg gtataaaaat caggcggcga
                                                                      900
gtcagattct tagaatcaaa ttga
                                                                      924
<210> 5188
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 5188
                                                                      60
ggatacatga tgtgtaactt tactcctgtt caaattattg ctgattatat actgaggttt
                                                                      120
cttaaaaata atactgatgc caagctttat gaggcaatgc agcgtcttga aaagaaaatt
ggtcagtttg tcgctgatgg ggttgatgaa catcaattac gctcttcatt aagcaaagtc
                                                                      180
tgtcgatctc gttccagggc ggctcttaaa gaggagtgtg aacaactcat tccataa
                                                                      237
<210> 5189
<211> 306
<212> DNA
<213> Enterobacter cloacae
<400> 5189
ggccgggaag gtatgtcagg tttaagcagt tccgcccaga agcttacaag ggcgcagatt
                                                                      60
                                                                      120
tacgtgttaa gacggatggc atccggcacg atctatgata tctctggcaa tttcagacgg
                                                                      180
gccagagaac ggcgtacgtt tatggggaat cctgatgatg tgacgtgcag gagctctccg
gtcctgttcc ggctgggcct cgtggagtta tgccagccag taaggcatct ggagccaggt
                                                                      240
                                                                      300
ttatactatc ggctcaagtt gagctcctca gggcatgaag ctcttaaggc gaacgcacac
                                                                      306
ctctaa
<210> 5190
<211> 279
<212> DNA
<213> Enterobacter cloacae
<400> 5190
gaaacagaac ccgacacatc gctgctctct gggaaagccg gtcagcagat ggagcgccag
                                                                      60
                                                                      120
gaactaaatc cgctggtttt aataatgatt gaggagaaca agatgaaaga taacaagaca
cgtcctgtag actcgtatgc tcatgctgat ttcatggagt ccgtcttcag caacctcagg
                                                                      180
gctttctgtg atgcggaatg ccagcggcta actgccggtt atcccccaac tgtcaaacca
                                                                      240
gaacagcaaa gcactgacgg ccagctgtcg gcggcataa
                                                                      279
```

<210> 5196

```
<210> 5191
<211> 195
<212> DNA
<213> Enterobacter cloacae
<400> 5191
                                                                       60
atcattacct gccagttcgt tcaaatttcc gcttccttaa gcccgggcca aaagcccggc
                                                                      120
tcaatccaaa aactgaacgt accggtttac ctctatatct cctcaatccc ctgcgactta
caagagaccc gcaccggttt agccattcct gtcctgccac tctctcatca ctggcccaga
                                                                      180
                                                                      195
caaccggaaa agtaa
<210> 5192
<211> 369
<212> DNA
<213> Enterobacter cloacae
<400> 5192
                                                                      60
tgggctacgc attcagtctc cacctctcta actataaagg ttcttttcat gtccaatagc
ttcgataagc cgcaaacgct cccggtacat aattctgatg ccgaaccctt ttttccgaaa
                                                                      120
                                                                      180
aaccttggtc catttatcga gcaggtatcc ggaagggatc tggcaatgct cacagaatca
                                                                      240
qagaaqgaaa aacttgcgca cctgatcaga actgggcgta aatatggagt ttctgtcgct
                                                                      300
ateqttcctq atacagattc tgctgagctt catgaattac tgtctaatgc cgattccatt
qaaaqqcaqt tttccatcta tqaacqcatc cagacqaaqa ttqcqttcac gcggtgtcag
                                                                      360
                                                                      369
gaagcataa
<210> 5193
<211> 354
<212> DNA
<213> Enterobacter cloacae
<400> 5193
gccactttgt tatatttgtt tcatgttaac agaggaggcg atatgcaaat tgaaaaggtg
                                                                      60
atgtcattac ttgaagtgct ttcaagctgg cttgaagata acatcaatat ggattctgaa
                                                                      120
attatctttg ataatgacga agataatacc aactcagaaa ttctgtatcc tgctgtagaa
                                                                      180
aaggctaatg ccgttttgcg caaaatggca tctttatctt cagattctgt tcatgcaatt
                                                                      240
cgacagcgct tgcagcttgc cgtagaaggc aaagctgaat tgtccctcaa ggatgtggga
                                                                      300
                                                                      354
qaqcttctqc tqqcaacaaa gtatctgatg ttgtccactg aagagggaga gtaa
<210> 5194
<211> 189
<212> DNA
<213> Enterobacter cloacae
<400> 5194
aaaggtgact tgatgaaacc atttggactt gccggaaaac cccggcccga accttgcggc
                                                                      60
tgctgctggt atacccgtga ggactgccct tacgtcagcg caaaacagat ctatcgccgc
                                                                      120
aggcagcagca aggcagaacg ccagcgtcag cgcagcacca ttgtgatggc cgtttctgaa
                                                                      180
                                                                      189
tttcgctga
<210> 5195
<211> 192
<212> DNA
<213> Enterobacter cloacae
<400> 5195
aaaaaccgct atgcaggaaa aagagtaata ccccctttta gcacccacaa tttcaccgtc
                                                                      60
                                                                      120
catctgcctt taaccttgcc tgttattaac ggaatccttt ctgactgggc ggatcccacg
                                                                      180
cataacctga actgttggct aaccgtctta cagccaaatt ccctccttta tctggcagga
                                                                      192
gtgcgtccgt ga
```

```
<211> 522
<212> DNA
<213> Enterobacter cloacae
<400> 5196
                                                                      60
tgttgtccac tgaagaggga gagtaagcct gtgaccactc tcgtatttga aatggcagat
atcaataaac tgatcgaaga aattcgcacc gcaaaaacgt tttcggtcac cccagatcag
                                                                      120
atctatgacc cggcatgcta tccgggggga gccctcctta acgctgaggg acagactgaa
                                                                      180
gaagaggcgc gtaaagctgg tagggttttc tttccctcat cctcaaaaaat tgccagcaca
                                                                      240
catctggtgc caaaagtgct tctcgcgcac agtcatggtg tatacctgat cactaatgct
                                                                      300
gagettgagg getetecege atccegegat actgtggett acgcecaggg gatgaateca
                                                                      360
aaactggatg aggactggga ttacgcttgt gatgccgctt tgggtgggtc tgattgtagc
                                                                      420
                                                                      480
tataccattc ccgttgagtg gctggagtta gcggtagagc agggttttca ggagtttcga
                                                                      522
cttcgaatga gtgaaaccaa tatcaaactt gtcagcaaat ag
<210> 5197
<211> 231
<212> DNA
<213> Enterobacter cloacae
<400> 5197
gaattctccc tgaatggaag gcaaccgatg aaaatgtttt ttacccctta tgttcgtatc
                                                                      60
gttttctatt tttgcgcatt gatttttatt gtttacagtt tcagtgattt tttccagggc
                                                                      120
gtccctgaca gcaccttctt cagtgcggtc atcacgctac ttgttatcgg aaccattgtt
                                                                      180
gcccggcatc tggatcgcaa aaaatctctc aaatatactt cacagattta a
                                                                      231
<210> 5198
<211> 243
<212> DNA
<213> Enterobacter cloacae
<400> 5198 -
tttaataagg accggttcat gcataaccac gaaattcaga ccattgctat atttagtgcc
cagtataaaa acatcgaaga tgctgaaaat gcaggtgctt tatattcagt agatattgaa
                                                                      120
tatccgatga cactaaatga tttatcgcgg ctttgcgact ctattgccga agcagtaggt
                                                                      180
                                                                      240
gtgcctggcg gcgtcaaata ccagttcgtg tcccagccgg aagcgcatga aaccagcttc
                                                                      243
tga
<210> 5199
<211> 237
<212> DNA
<213> Enterobacter cloacae
<400> 5199
                                                                      60
ccagtaacca aactgcctaa aagcaggtgc aaagccatga aacaaacaaa gtcttctatg
tcacgtattg tgcagctgta cgacgggagc cgatacggaa actgcgagca ggctgataac
                                                                      120
                                                                      180
gaaggagagc tttttacggt ggtgttgaat aagccttcgc agatcgatga catccgtaaa
                                                                      237
atcgtagaca caaccgccga agtacttggc aaagctttgc cagtactcct cttttaa
<210> 5200
<211> 327
<212> DNA
<213> Enterobacter cloacae
<400> 5200
                                                                      60
tctggagagt caatcatgat cacatctcta atgaatttcc gcgatttaac cggagaggca
                                                                      120
qtcatccaqq cqcqqcaatq cqttattaat qctqagatcq aagcggcccg ggaaaaggta
                                                                      180
attcatgctc gttcgttatt caaagcgggt atacataatg ttgtaaacgg tagttctggc
attaaggctg cggcagcaca ttttctggtg ataaaacgtt tacagactga cactcggtat
                                                                      240
                                                                      300
ctggacgcgg ttatcactga taacctttgc atgttttctc ctgagggtta tctgtatctg
                                                                      327
tttatgcaac aacgttattt cctataa
```

```
<210> 5201
<211> 291
<212> DNA
<213> Enterobacter cloacae
<400> 5201
                                                                       60
ggatataata tgaaaatcag ccagctggaa tccgggatgc aggtttggtc tgtaacccgt
accaaaatgg gaaataccac catttcaacg gtcattgtcc accccgttgt cattattgaa
                                                                       120
attcatgata accatgtgat tgctcgctgg aacggcaatg caccacgtcg gtttggagaa
                                                                       180
acggctatca ggggctggaa gaaggagaag ccactgcttg tccgtgagcc tttcggaaat
                                                                       240
                                                                       291
gttcgtctgg ccacccgggc tgaaaaaacc gctatgcagg aaaaagagta a
<210> 5202
<211> 618
<212> DNA
<213> Enterobacter cloacae
<400> 5202
caggagtggg gtatgactga attaaataaa agcccgtccg gtttttccgg agctgatgtc
                                                                       60
                                                                      120
agtaaagaac aggctgccat aagggcactt gtagaaagag tagtgaccaa ctatcgcagc
cggacagcac ctgatcgggt tcaaaaggct tcggtagcgt ttaatggggg attaatcctg
                                                                      180
accetgatge tggcettgac getattggge tacettgtgg eggaattget cagggggtat
                                                                      240
                                                                       300
gttgcggata gttcacccta tgtgcccggt ctaagttatt cgcaattttc gatgcttatg
gtcgttgagc tgtgtctatg ctttcttgca tggtttttgg ttgtcacagg ggactatccc
                                                                       360
cggccgtgga tatttcaggt agtcccgatg gagcagtact ggttctttga cgaagtggat
                                                                       420
gacgacgate ttgcccgget ttcctgtaac cettacatca agegetgget acttgatgaa
                                                                       480
atgtccggta ttcatcgact gacctacacg aggctgcatg atcgactgga gcgcatctgt
                                                                      540
aatattgcat cccatctcga atacagccgt attcaggcac ataagatttc cctaatcaac
                                                                       600
                                                                       618
ggaagcagtg cctcctga
<210> 5203
<211> 351
<212> DNA
<213> Enterobacter cloacae
<400> 5203
ttcgccaaac tacggggcat ttctttaatg gcggagcttt acatcactat ttctgtcatt
                                                                       60
ttcaaatccg ccggatacag caataattgc accgaacagc ggtttgaact gcaatgcatc
                                                                      120
cgtagggtat gcgacaataa taaggctctt cccgtactct taaaaatgga agagtttaaa
                                                                      180
accoatactg ctgggatgag cgaagcacgg tacattatgc cagcgtataa gggccgtcat
                                                                      240
                                                                       300
aacttgtttt tttctagaac acggcgaagt tttcttacct gggaagctgt ggaaagcgta
\verb|ccggttcggg| gatggcatgc| gcttgccttt| tcacctggtt| tgagtacata| g
                                                                       351
<210> 5204
<211> 537
<212> DNA
<213> Enterobacter cloacae
<220>
<221>unsure
<222>(526)
<400> 5204
aaaaaatgtc gaacctggta ttgttgtgtt gtagcgcagt taaacaacca accaaaagag
                                                                       60
agaacaaaaa tgtccgcaat cgaaactgaa gtaaaaaaca acagcaacga aataagcctt
                                                                      120
                                                                      180
cgtggttacc tggaacgcac tggtaacggt gcccgtaaag gtaacggcct tatcattgac
                                                                      240
ccttcggttg ttgtacaaca ggaaggcttt aacacccgca cggccggtat gggcgagctc
                                                                      300
tactattcaa tgcctcacgt tgtggaacac ctgaacagcc tggccgatgc ctacatggaa
gacccgttca gcgtgacgcc tatcgttgtt cagatggtta atggcgtacc tgtactgcgt
                                                                      360
                                                                       420
cagggggctt gccgtatccg ttccatcgct attgcaaacc gccagctgga agcagaaggg
```

cgtgaacgca ttactcgtat ctcttcaccc tgaccggcaa					480 537
<210> 5205 <211> 204					
<212> DNA <213> Enterobacter cl	oacae				
<400> 5205					
gcgggggctg ataaaatgga					60
ggctgtctaa ttgttggtca ctggttcgtc gttcaaacga					120 180
ttagaagggc ttttaaatgg		ogoogo	<i>a</i> 990aaaa		204
<210> 5206					
<211> 276 <212> DNA					
<213> Enterobacter cl	oacae				
<400> 5206					
agaggtaacc gaataatgag					60
agtctgactg attcagtcga					120 180
gcctataagc tacttgcttc gtcaccacgt ataaggtgaa					240
aaagaggcta ttaaacagat				- 5 5 5	276
<210> 5207					
<211> 298					
<212> DNA <213> Enterobacter cl	02620				
VZ13/ Enteropacter Ci	Oacae				
<400> 5207					60
gttgggggcc gtcccggtga aacccaccgt ttaaccaaaa					60 120
ttggggtcgg ccaaccgggt					180
gtggacgtgg gtattaaccg	cctggaaaac	ggcaaagtgg	ttggcgacgt	ggtgtatgaa	240
gatgeegeag egegegeate	ctatattact	ccggtcccgg	gcggcgttgg	cccgatga	298
<210> 5208					
<211> 921 <212> DNA					
<213> Enterobacter cle	oacae				
<400> 5208					
cctatagcaa gtgttaaact					60
agcaacatga cacatatctt gaaacattaa tggaagtcat					120 180
gtggtcgatt ttgttaagaa					240
tgctattttg cttttgatga	tggggcttac	tttctcgagt	ttgacggcaa	gggtaaatcc	300
agacgcttta ctgaggtgcc					360
tggctgatta accatgacct tcctacccgc ttaaagagcg					420 480
aaggtcaatg tggttccggc					540
aaaactacca agcctcgcgt					600
gcgcgtatga aaaccgccgt caggaggatc ttacaaaagc					660 720
gcgattactg gcgatctgcc					780
ttctgcgctc ccgttcgcga	gcagatccag	cagatagagg	ccatcggcct	ggaaaaatac	840
tatcagggat tatcaaaagc		gccggggatg	ggtttatcac	tgacttcagc	900 921
tatacctggt ctgaaaagta	u				<i>7</i>

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<210> 5209
<211> 258
<212> DNA
<213> Enterobacter cloacae
<400> 5209
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aaattcgccc ggagagagac aaaaatcgac gtgctgaagg atggtgttat cacccacacg
                                                                       120
aaagccaaca tccctgatat ccagaagatt ttttttatta ttcattccga ttccattaac
                                                                       180
cgctgtgata agaagagcct taagcataat cctttccgct acgcagcgct aatagcctta
                                                                       240
acctatagca agtgttaa
                                                                       258
<210> 5210
<211> 186
<212> DNA
<213> Enterobacter cloacae
<400> 5210
cgatgttggg ctaacgtcat cacggtgctc agcggcgagc agcacgacag tttcaaaacc
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agcaagcgcc tgatcgagtt gatcctgatt acgaacatca ccggagacag taatatccgg
                                                                       120
ataaaaatga ctctgctgtt tgtcgaagtt agtaacatca aaatcagtct tggaaatctc
                                                                       180
gattaa
                                                                       186
<210> 5211
<211> 192
<212> DNA
<213> Enterobacter cloacae
<400> 5211
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                                                                       60
agcgccaccg ggcaacaaaa aggcgaccac acggtcgcct ttttttatta caacagctcc
                                                                       120
cgcgccgccg acacaatgtc atgtgccgtc aggccatact ccttttgcaa gaagtcctgc
                                                                       180
gtgcccacct ga
                                                                       192
<210> 5212
<211> 183
<212> DNA
<213> Enterobacter cloacae
<400> 5212
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ggggtagcga tgacaaaata ttttgaacgt tgtcatagcc tgttgtggtt ttgcacgaaa
                                                                       120
attttaattt ttatacgtga agttgaggta cagccatgtc gacacccgaa atcccgtccg
                                                                       180
tga
                                                                       183
<210> 5213
<211> 252
<212> DNA
<213> Enterobacter cloacae
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                                                                       60
atcacctate agegegtete tgatgaacae etgecegtte tgaataaega aeggaagegt
                                                                       120
aacggtcgct ccggcctggt gcgttacggc gaagcggtca gccacgaaga taacctgcga
                                                                      180
ctgcatgccg gacggcgtat tctcaacgcc gatccccatc cctgccgcgt aatactgacc
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attgctggct aa
                                                                       252
<210> 5214
<211> 210
<212> DNA
<213> Enterobacter cloacae
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cccggtataa tcatccactt tgtatattga	210
<210> 5215	
<211> 414	
<212> DNA	
<213> Enterobacter cloacae	
<400> 5215	
ggaatcatca tgattcgcat ggaagttaaa gggcttcagg aattcg	
tcccttggtg aaaaggttgg tacgcaggtt ttacgggagg ccgggaacccgttctgg aggatatgaa agcgcatgct ggttacgacg aatcag	
atgcgcgatt caattaaaat ccgctcatcc tcttcgaaag caaagg	
tatettegeg ttggecegag taaaaaacae tteateaaag egttgg	, , , ,
accqtaaaqc aaqtcqcaaq tcccttcatt cqtccqqcqc tcqatt	
gttctgcgca tccttgcgat agaaatacgc gaccgaattg aaaacc	
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<212> DNA <213> Enterobacter cloacae	
(213) Enteropacter Cloacae	
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aaaattgtat tgagtgtatt gttattgact gcatttaatt catacg	
gattatctgg agcgtcattc tgaaataaaa tcaaattctg ttgctg	
cattacgcct ttatgattgc gatgatggaa gcacaacaaa agcata	
gaatttatta ctgggttgct ttcaaataat ggtgatgtat atgcaa aagcttgcaa atgattgttt aacgcaaagg agcattggtc aatccg	
aaagagtgta atattgtgat tagagcagat aaatcagaac aatag	405
aaagagagaa aaacagagaa aagagaagaa aaacaagaac aacaag	
<210> 5217	
<211> 375	
<212> DNA	
<213> Enterobacter cloacae	
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aatgtggtga aacagcattg ccgcattgat accgacttta cgggtg	
gagatetaca caggtgegge ggeeeggtae gteeagacat ggacae	
gaaaaggaaa gcagccctgg ctacgctgac gacccggacc cgatac	
gttaaggcag ccatgctact gcttatcggt cactggtatg caaaca	
ataggtgaaa ccgtgtctca ggttccatta gctgtggagg ctcttc	
atatatggcc tatga	375
<210> 5218	
<211> 381	
<212> DNA	
<213> Enterobacter cloacae	
4400 5010	
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ggagaattac gggaacatgg taacgggagg cctcttacgg ggcctc aactggatgg cggaatatgg tgttcagaca tgggacgcat caggca	33 3
ggcgttaagc ctgtcagcgt ttgtggctat ctccagctgg cccaga	2 2
tottacacag tagogottoc accgggttge aggotgacct attition	2 22
gatcagtttg gtacgagtcg gaggaagatc accatttcgg ggggaa	cagc aacagtgtca 300
gcagcaggcg ataccgacta ctcagcaggg actgagcctg cggcag	

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381
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<211> 1419
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
                                                                      120
ctccggcggg gttttttatt gcctggagaa aacatgattt atactactgg cactatcgcc
atcagoggaa acaccottac aggtacoggo acaaacttca ctgctgctgg atctcttatt
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cqtaacqqat qtaccqttat tqcaatqacc agccctqtqc aggtatttca gattaccacc
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attggcagcg caacaagtct caccgtaacg ccagcggcta acccagcagt tcccgccgga
                                                                      300
                                                                      360
accogntting coattettet gagtgacagt ctgagegtgg atggtetgge geaggatata
gctgaaacct tcacgatgta ccagcgctac atgagcgggt tcgctgatgt aatgaacggg
                                                                      420
                                                                      480
acatctgatg tcaccattac tatcaacggc actgccgtta ccgtgccggg tcaaaaaatct
ctggcgaaga aaggggctaa cagcgacatt accagccttt ctgggctgaa aacagctctc
                                                                      540
                                                                      600
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ttaggaacat cagccacgct taacgcgcgt cccaacgaaa catatccaac tgatggtgtt
                                                                      720
ttgactgtag ggcaatatgg catcggagca caaaacccgc ctcttaccac agatttcaaa
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accatagatc gtggtggaat atttgcggga gctggctctg caggcgttaa tttttataac
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qcqtttqcac ctqtccttqt gatgagcaga tattcatctt ctgcaatgca ggccatacaa
                                                                      900
qccqataact caacccttgc gtttaatatt aaagacggta atggctggcg tggatgggtt
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aagctataca qtqaaaataa cactacccqt qccagtgatg gcacgctcaa agtcgcctca
                                                                      1020
cctgtagtcc gaatagtgag atcacaagag gaatgtagga gagcagatgt tgacaaggat
                                                                      1080
ggattttcct ggtgtggctg cggtacggcg aatgcagagg cagagggtgt aaccettttt
cgcctcgacg taggtgttta cgttatcagc ggttcggcag gcctggcgtc tgagggatgg
                                                                      1140
caqttactqc cqccaatgga tcctggcggc atgggggaac tgggtgtagt tgaagctgag
                                                                      1200
cagacagaaa gcggtgggct gacgattcgg ctttttaagc ggaaatacat actcagcgaa
                                                                      1260
gaaggcgaaa ttgttaaaac gaaaggggct cctatagatg ttcctgccaa tagctggatc
                                                                      1320
gacgttcgcc tcgatatgcc agaggatagc atctggaaaa caagagcttc cgaagcttct
                                                                      1380
                                                                      1419
cttgaactga cagagcagcc tgaggacatt cagccttaa
<210> 5220
<211> 498
<212> DNA
<213> Enterobacter cloacae
<400> 5220
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                                                                      120
tegecagagt aegegatget geetgetgge aeegtegtta tgtggggtge tgegggeage
                                                                      180
gacgtagcaa caatgaaacc actcattaac tgtaaagcgc tgggcgctac aggacagacg
                                                                      240
ggcagetttg tagactgcae tacgetgate gataccagta aacagtttat etetgacetg
cctgaaggcc ctgaaaaatc gctgggcttt attgacgatc cagccaacca ggactttgct
                                                                      300
gatttcctca acgcagcaga gaaccgggaa accgtacagt tttacgttga gctgccaaat
                                                                      360
ggtcgaacgg cgaacatgat tctggccctt tctggctggc agatgaatga aattaccgcc
                                                                      420
                                                                      480
ccggcaagtg aagtcattca aatcactgtt cagggaaaac agaacaatat tacttggggt
                                                                      498
acggctgccg gcagctga
<210> 5221
<211> 378
<212> DNA
<213> Enterobacter cloacae
<400> 5221
                                                                      60
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                                                                      120
cctaaaaqcq ccqttqttac cqccqaaatt tttqgaacca ccgtttatct acgccgtatg
                                                                      180
acggcgggag aactcatcga tcatgaagaa gcgctgcgag acagtcagat tgcagaagat
                                                                      240
qcacgtaaag cttcagagat cagtgtgcag ttgatcgtcg attgtcttgt ccatcccgat
                                                                      300
ggcagcctaa tcgcagctaa agacaagcct accgcagccg agctactcca gactcatgac
                                                                      360
aacgtggcgc tccttgatgc aatcgccact gtaaaaaaac atgcgctggg taagcttgaa
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gacgcggaaa a	aaactaa					378
<210> 5222						
<211> 474						
<212> DNA	. 1 4					
<213> Enterd	obacter clo	acae				
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attaaaacag						120
cagcacgtgc c						180.
tttggcttga a						240
gaccaggacg t						300
tggctgggta a						360
gggaaagatg d	cgcagagtga	gaagaatatt	gaagcgttgc	gcgggatcta	taagtcacgc	420
ttcgcgcagg a	agtcggtgat	gcgggttgac	cagccggtgt	gcgtgcagtt	ttaa	474
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<211> 243						
<212> DNA	abaatan ala					
<213> Entero	obacter CIC	oacae				
<400> 5223						
caaaacagcc a						60
gcacaggaag t						120
gataaaaaga g						180 240
agccgtgcgc t tga	aaaagccgg	Cattaatyca	ggcccaaccg	cccigcccc	caagaacaga	243
<210> 5224						
<211> 234						
<212> DNA				•		
<213> Enterd	obacter clo	acae				
<400> 5224						
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tcgcttccat t	cgtattcca	tatcctcgta	ggcttcattc	gttttcgaga	tgaaaacaaa	120
aataccgagg c						180
tgctggcgga t	cgttttgcg	ccaggaaact	gatacgatag	gcaatgaggg	ataa	234
<210> 5225						
<211> 1383						
<212> DNA						
<213> Entero	bacter clo	acae				
<400> 5225						
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ctctatgtga t						120
gaacacgtta c			_	-		180
ttgctagttt t						240 300
aaattcatag o						360
gaaggcgaat t						420
gaccagacca g						480
aaggactata a	actaccgtat	ttttgaaacc	gttgtctggg	ttcacggagg	gagtggatcc	540
tgcattgatg a	actgaggcg	cactctggag	cggttgggta	ttgaaacggc	aagcacgtgt	600
aaaattgagt a						660
tctgattaca g						720
gaatcaaaga g						780
gagggcgaaa a				cgaaaaatct		840 900
			., >			

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gggctgtccc gtattgaaaa atatccatta atgcaggcac tggataaaaa agcgctcacg
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gtggaacggc tggatatcga tgcctctctg ggcgcaaaga gtgccgggta tcggtggctg
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                                                                      1080
gctctggcat ttgcggcgga tgcggtcaaa tatgcccagg gggagcaact ggcagcttat
                                                                      1140
tcagacaaaa acaaattttg tattacttcg ctttcctcca tgaagacagc tatcccaaaa
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aaacttacct ggtgtaactg gagtaatccc ctttatcctg cggggatggc ggctttattc
tgcgtgttat ccctcattgc ctatcgtatc agtttcctgg cgcaaaacga tccgccagca
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atctgggaac tgattgcgag catcatcatt cccttcgtta tttttattgg cctcggtatt
                                                                      1320
tttgttttca tctcgaaaac gaatgaagcc tacgaggata tggaatacga atggaagcga
                                                                      1380
                                                                      1383
tag
<210> 5226
<211> 327
<212> DNA
<213> Enterobacter cloacae
<400> 5226
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                                                                      60
ccccgcaaaa tcatcgagaa acaggacatt acttccttcg cccagaataa gtacgggttc
                                                                      120
                                                                      180
accepttteet gttgegtttt gecatgeatt cageaactge tgageaettt eggeaegtae
                                                                      240
aatttgatta gcattccgtt gaataccaaa ggtattccag ggcttaaggg agtgattcat
                                                                      300
agacgctatc ctgatgcaaa aaccgggata gtttaccgta tatatggggg gataggtgat
                                                                      327
ttgtttatgg aaaggaagca ggtgtag
<210> 5227
<211> 387
<212> DNA
<213> Enterobacter cloacae
<400> 5227
                                                                      60
atatcgcggg gtaaaaagta tagactgtca gcctccgcag gcatggaaaa taatcgtact
                                                                      120
gtctggggtc cacggttact gtcgagcctg atgattgact ttggctcatc gcccatcgta
attatggcca cgcgggaatc cttcccctgc gccgctatcg tctggtttac cagactgatg
                                                                      180
gcatcttcat tacgatccgt attaacccac cagactcctc cgactggcat gtggcgcaat
                                                                      240
tegteecata atgaetggat gecaatagaa aatatggagt eeaeggtgte eetetttteg
                                                                      300
tegaatttet atgtetetea gtttaetage gaaagegtag aaataaaeet aacattgaaa -
                                                                      360
ttaaagaaca tcagatttag catgtaa
                                                                      387
<210> 5228
<211> 552
<212> DNA
<213> Enterobacter cloacae
<400> 5228
                                                                      60
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ccaggggaag ctggtgtaa tatactgccg cttcacgctg cgccgcagtt tacacagcag
                                                                      120
gtgatcgact ggatctggta cgcgtttggt gaaggtatgc cgcgtgcctt tttccagagc
                                                                      180
attgtcgagc acagcctgac gccgggcgag ttaccgctca cctttattgc cgttgaggat
                                                                      240
                                                                      300
gaccagetge tgggcaccgt tgggttgtgg cgttgcgatt taatttcccg acaggatete
                                                                      360
cacccctggc tggctgcgct gtatgtcgat gaagccgccc ggggaaacgg gctggcggga
                                                                      420
aaacttcagc agcatgttat cggctacgcg cgacgcgccg ggtatcacga gcttcatctc
                                                                      480
tggtctgcct gccgcgactt ctacgaacgt tacggctggc actacatcgg cgatgcgctg
gaatacccgg ataaaaccgt ccatctctat cgctgttcgc tcacggcttc cgcgggcgat
                                                                      540
                                                                      552
accaccgagt ga
<210> 5229
<211> 198
<212> DNA
<213> Enterobacter cloacae
<400> 5229
ccaaagcagt atttgaaact cgtggcgtca cggcagatgc acttcctgac gcttctccgg
                                                                      60
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			agcagcgttc ttactgctga			120 180
ggcaaagacc		ceggeedade	ccaocgocga	coccergere	ocygacococ	198
<210> 5230 <211> 597						
<212> DNA <213> Enter	obacter clo	pacae				
<400> 5230						
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			attgcggacg tcagagctgg			180
			tgcatgaccg			240
			gtgaatcacc			300
			gatacccacg gagaaagcgg			360 420
			aagtaccggg			480
			ggcgcgtcga			540
ctccgcgcga	tctcctccct	gtatgatacc	gccgcacgcg	cggcggcctc	gctttaa	597
<210> 5231						
<211> 387						
<212> DNA						
<213> Enter	obacter clo	oacae				
<400> 5231						
			gccactcttt			60
			atcgcagagt tctaccttca			120 180
-			gaagggtttg			240
gtaatcaagt	ttgagagtct	caaaaatgcc	caggactggt	atagctcggc	cgcataccag	300
			aattcgcgaa	cctatatcgt	agaaggattg	360.
ccagaactgg	ctcctgttac	accatag			•	387
<210> 5232						
<211> 267						
<212> DNA <213> Enter	obacter clo	oacae				
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			atgcaggaaa			120
			ggcgtcgcgg			180
aagaatatgg aagatgatac			ctggtcgatg	gcgtcgaagc	gcagaccgtc	240 267
aayatyatac	cccyagagec	agaataa				201
<210> 5233						
<211> 1167 <212> DNA						
<213> Enter	obacter clo	pacae				
<400> 5233						
	aaagagaacg	ggatcgaggg	gatcgaaccg	ctgcatatcg	gcctatagac	60
cattccgacc	gccattgcgg	cactgatcat	ccatatgacg	cgtctgctac	gcctcgatgc	120
			agcagagcag			180
			tactacctga aacccgaaac			240 300
			ggcgatctga			360
tccctggcgt	atcgcattat	tggcggcgcc	gttatcgtga	ttgcgctgct	ggccggtttc	420
gggctggtcg	ggaaggggcg	ttataaaatg	tccaccgagg	aggagcgcgt	tgcctcgtcg	480

<212> DNA

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540
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gggacgctat ttctgaaagg cgtgtcgatt ggcggtgtct atctgctcga ccagaaacag
                                                                      660
cttacgctgg cggcactgtg cgtagcctgt gtggcagcta tcctcaccgg ctggtggctg
                                                                      720
acaaaaggta caccgctgca tgcggttcgt cagtcgcgtc ggctggtcga taccattggc
                                                                      780
tgggcggtga tcctgccgca gatgctcgcc atgctcggcg gggtgtttgt ggtggcgaat
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accqqcqaat cggtacaaaa ggtggtcagc ctgtttgtga acccggacag ccgcttcatg
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ctqqtqqtca tttattqcqt qqqqatqqcq ctqtttacca tgatcatggg taacqccttc
gcageettee eggtgttaag egeeggtate getetgeeat teetgattaa egteeateae
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acgccgatgg ccgccaactt caacattgtg cccgccgcgc tactggagct aaaagacaaa
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tatcaggtta tcaagatcca gatcccgacc gcgttaaccc tgctggtggt gaacgtgttc
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                                                                      1167
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<210> 5234
<211> 1005
<212> DNA
<213> Enterobacter cloacae
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                                                                      60
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ctgccgcctc gcgagctgca cccgatcttt tacggctgtt ttgactggca ctctgcggtg
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                                                                      240
cacggctact ggctgctgct gcgctgcctg cgtctctggc ccgaactgcc gtgccgggaa
                                                                      300
gagatcatca ctctgttcga agaacacctg accgacgaga aggtggcgaa ggagttggcc
                                                                      360
tattttaccg cgccgttccg cgcgtcgttt gagcggcctt atggctacgg ctggctgctg
                                                                      420
gegetggege aggagetgaa geaategtea etgeegeagg eggagegetg gtaccagaeg
                                                                      480
ctgcaaccgt taacgeggga tattegecag eggetggtgg attaceteag caagettace
                                                                      540
tatecgatee gegtegggae geactaeaae aeggegtttg egetegeget ggggetggat
                                                                      600
tatgcccggg cggtgaacga tgacacgctt gagcgcgcca tcctggacgc ggcaacgcgg
                                                                      660
ttttacctcg cggacacgca atatcctgcg cattatgagc cgggtggcga cgagtatatc
                                                                      720
tccggagcgc tgaccgaggc cctgctgatg agtgaggtgg tggaggattt cccggcctgg
                                                                      780
ttcgatgcgt ttctgcctga agtgggcgcc gtttctgcgc tgatgaaccc ggcagaggtg
agegacegea cegaceegaa aategegeat etggaeggte teaaceteag eegegeetgg
                                                                      840
                                                                      900
tgtatgaagc acattgcccg tgctctgccg gaaaatcatc acgcccggaa gccattacac
                                                                      960
gatgccgttg cgcgccatct ctcggcaagc gtggagcatg ttgtcggcag ccactacagc
                                                                      1005
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<210> 5235
<211> 801
<212> DNA
<213> Enterobacter cloacae
<400> 5235
                                                                      60
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ttggataggg taacgtttat ggacagttct acactgttgc cacttatcgg gattccggtg
                                                                      120
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